# CONSTRUCTION NEWS

## PROPOSALS

**For proposals Advertised see the pages immediately following the "Construction News" Section.**

### WATERWORKS

| Bids Close | | See Eng. News-Record |
|---|---|---|
| Aug. 18 | Wheeling, W. Va. | Aug. 17 |
| Aug. 21 | Blain, Pa. | Aug. 17 |
| Aug. 21 | Lyndhurst, O. | Aug. 17 |
| Aug. 21 | Port Credit, Ont. | Aug. 17 |
| Aug. 22 | Chanute, Kan. | Aug. 17 |
| Aug. 23 | Cleveland, O. | Aug. 17 |
| Aug. 23 | New York, N. Y. | Aug. 17 |
| Aug. 24 | Sacramento, Cal. | July 27 |
| Aug. 24 | Quincy, Fla. | Aug. 3 |
| Aug. 25 | Mansfield. Mass. | Aug. 10 |
| Aug. 28 | Shakopee, Minn. | Aug. 17 |
| Aug. 28 | Sibley, Ill. | Aug. 17 |
| | Adv. Aug. 17. | |
| Aug. 29 | Charlotte, N. C. | Aug. 10 |
| Aug. 30 | Scituate, R. I. | Aug. 3 |
| Aug. 30 | Madison, N. J. | Aug. 17 |
| | Adv. Aug. 17. | |
| Sept. 15 | Grants Pass, Ore. | July 27 |
| Sept. 15 | Plaquemine, La. | Aug. 3 |
| Oct. 1 | Ponchatoula, La. | Aug. 3 |

### SEWERS

| Bids Close | | See Eng. News-Record |
|---|---|---|
| Aug. 18 | Erie, Pa. | Aug. 3 |
| Aug. 20 | Colonie (Watervliet P. O.), N. Y. | Aug. 10 |
| Aug. 21 | Redwood City, Cal. | Aug. 10 |
| Aug. 21 | New York, N. Y. | Aug. 17 |
| Aug. 22 | Rice Lake, Wis. | Aug. 17 |
| Aug. 22 | Newark, N. J. | July 27 |
| Aug. 28 | Rye, N. Y. | July 27 |
| Aug. 23 | Brooklyn, N. Y. | Aug. 17 |
| Aug. 25 | St. George, N. Y. | Aug. 17 |
| Aug. 25 | Milwaukee, Wis. | Aug. 10 |
| | Adv. Aug. 10 and 17. | |
| Aug. 25 | Tonganoxie, Kan. | Aug. 17 |
| Aug. 28 | Stewart, Minn. | Aug. 17 |
| Aug. 29 | Newark, N. J. | Aug. 10 |
| Aug. 31 | Marion, O. | Aug. 17 |
| | Adv. Aug. 17. | |
| Sept. 4 | Redwood City, Cal. | Aug. 17 |
| Sept. 5 | Plainfield, N. J. | Aug. 17 |
| | Adv. Aug. 17. | |
| Sept. 6 | Gardnerville, Nev. | Aug. 17 |
| Sept. 7 | Spring Valley, N. Y. | Aug. 17 |
| | Adv. Aug. 17. | |
| Sept. 15 | Eveleth, Minn. | Aug. 17 |

### BRIDGES

| Bids Close | | See Eng. News-Record |
|---|---|---|
| Aug. 21 | Mottville, Mich. | Aug. 10 |
| Aug. 22 | Athens, Ga. | Aug. 10 |
| Aug. 22 | Miami, Fla. | Aug. 10 |
| Aug. 23 | Pinkham Notch, N. H. | Aug. 17 |
| Aug. 23 | Mercer, Pa. | Aug. 17 |
| Aug. 24 | La Salle, N. Y. | Aug. 17 |
| Aug. 24 | Attelboro, Mass. | Aug. 10 |
| Aug. 28 | Maynard, O. | Aug. 17 |
| Aug. 29 | Wellington, New Zealand | July 13 |
| Aug. 30 | Newton, Ill. | Aug. 17 |
| Aug. 30 | Richland, N. Y. | Aug. 17 |
| | Adv. Aug. 17. | |
| Aug. 30 | North Carolina | Aug. 17 |
| Sept. 1 | Knoxville, Tenn. | July 27 |
| Sept. 5 | Houston, Tex. | Aug. 10 |
| Sept. 5 | Ft. Lauderdale, Fla. | Aug. 17 |
| | Adv. Aug. 17. | |
| Sept. 5 | Augusta, Ga. | Aug. 17 |
| | Adv. Aug. 17. | |
| Sept. 5 | Greenfield, Ind. | Aug. 17 |
| Sept. 7 | New Braunfels, Tex. | Aug. 17 |
| | Adv. Aug. 17. | |
| Sept. 7 | Savannah, Ga. | Aug. 17 |
| Sept. 7 | Nashville, Tenn. | Aug. 3 |
| Oct. 1 | Siam | July 13 |
| Oct. 31 | Sydney, Australia | Jan. 12 |
| Sept. 1, 1923 | Sydney, New South Wales, Australia | Aug. 3 |

### EXCAVATION AND DREDGING

| Bids Close | | See Eng. News-Record |
|---|---|---|
| Aug. 19 | Jefferson, Wis. | Aug. 10 |
| Aug. 20 | Port Frank, Ont. | Aug. 10 |
| Aug. 21 | Norwalk, Conn. | Aug. 10 |
| Aug. 21 | Naples, Ill. | Aug. 10 |
| Aug. 25 | Austin, Minn. | Aug. 10 |
| Aug. 26 | Moorhead, Minn. | Aug. 17 |
| Aug. 28 | Biggs, Cal. | Aug. 17 |
| Aug. 29 | Wooster, O. | Aug. 17 |
| | Adv. Aug. 17. | |

### STREETS AND ROADS

| Bids Close | | See Eng. News-Record |
|---|---|---|
| Aug. 19 | Cleveland, O | Aug. 10 |
| Aug. 21 | Princeton, N. J. | Aug. 10 |
| | Adv. Aug. 10 and 17. | |
| Aug. 21 | Pella, Ia. | Aug. 10 |
| Aug. 21 | Elkader, Ia. | Aug. 17 |
| Aug. 21 | South Bend, Ind. | Aug. 17 |
| Aug. 21 | Cleveland, O. | Aug. 17 |
| Aug. 21 | New York, N. Y. | Aug. 17 |
| Aug. 21 | White Fish Bay, Wis. | Aug. 17 |
| Aug. 21 | Beloit, Wis. | Aug. 17 |
| Aug. 21 | Long Island City, N. Y. | Aug. 17 |
| Aug. 22 | Long Island City, N. Y. | Aug. 17 |
| Aug. 22 | Ft. Wayne, Ind. | Aug. 17 |
| Aug. 22 | Orangeburg, S. C. | Aug. 3 |
| Aug. 22 | Beaver, Pa. | Aug. 17 |
| Aug. 23 | San Francisco, Cal. | Aug. 17 |
| Aug. 23 | Two Harbors, Minn. | Aug. 3 |
| Aug. 23 | Delaware | Aug. 10 |
| Aug. 23 | Henderson, Ky. | Aug. 10 |
| | Adv. Aug. 10 and 17. | |
| Aug. 23 | Akron, O. | Aug. 10 |
| Aug. 23 | Nevada | Aug. 17 |
| Aug. 23 | Cleveland, O. | Aug. 17 |
| Aug. 23 | Michigan | Aug. 17 |
| Aug. 23 | Rochester, N. Y. | Aug. 17 |
| Aug. 23 | Coleman, Tex. | Aug. 17 |
| Aug. 23 | Savannah, Ga. | Aug. 17 |
| Aug. 24 | Coleman, Tex. | Aug. 17 |
| Aug. 24 | Charleston, S. C. | Aug. 17 |
| Aug. 24 | Wyoming | Aug. 17 |
| Aug. 24 | Michigan | Aug. 17 |
| Aug. 24 | Virginia | Aug. 17 |
| Aug. 24 | Charleston, S. C. | Aug. 3 |
| Aug. 25 | Maine | Aug. 17 |
| Aug. 25 | Fargo, N. D. | Aug. 17 |
| Aug. 28 | California | Aug. 10 |
| Aug. 28 | Youngsville, Pa. | Aug. 17 |
| Aug. 28 | Waukegan, Ill. | Aug. 17 |
| | Adv. Aug. 17. | |
| Aug. 28 | Waterloo, N. Y. | Aug. 17 |
| | Adv. Aug. 17. | |
| Aug. 28 | Freehold, N. J. | Aug. 17 |
| | Adv. Aug. 17. | |
| Aug. 28 | Greenfield, O. | Aug. 17 |
| Aug. 29 | Maryland | Aug. 17 |
| | Adv. Aug. 17. | |
| Aug. 29 | New York | Aug. 17 |
| | Adv. Aug. 17. | |
| Aug. 29 | Michigan | Aug. 17 |
| Aug. 29 | El Dorado, Kan. | Aug. 10 |
| Aug. 30 | North Carolina | Aug. 10 |
| Aug. 30 | North Carolina | Aug. 3 |
| Aug. 30 | Little Rock, Ark. | Aug. 10 |
| | Adv. Aug. 10 and 17. | |
| Aug. 30 | Michigan | Aug. 17 |
| Aug. 30 | North Carolina | Aug. 17 |
| | Adv. Aug. 17. | |
| Aug. 30 | Columbus, O. | Aug. 17 |
| Aug. 31 | Sacramento, Cal. | Aug. 17 |
| Sept. 1 | Georgia | Aug. 17 |
| Sept. 1 | St. George, S. C. | Aug. 17 |
| Sept. 1 | Blue Earth, Minn. | Aug. 17 |
| Sept. 1 | Wellington, Kan. | Aug. 17 |
| Sept. 1 | Somerville, N. J. | Aug. 17 |
| | Adv. Aug. 10 and 17. | |
| Sept. 5 | Washington | Aug. 10 |
| Sept. 6 | Red Bank, N. J. | Aug. 17 |
| | Adv. Aug. 17. | |
| Sept. 8 | Somerville, N. J. | Aug. 17 |
| | Adv. Aug. 17. | |
| Sept. 11 | Crescent City, Cal. | Aug. 17 |
| Sept. 19 | New Orleans, La. | July 6 |

### INDUSTRIAL WORK

| Bids Close | | See Eng. News-Record |
|---|---|---|
| Aug. 26 | San Antonio, Tex. | Aug. 17 |
| Sept. 1 | Long Island City, N. Y. | Aug. 17 |
| Sept. 6 | Cohoes, N. Y. | Aug. 17 |
| | Adv. Aug. 17. | |

### BUILDINGS

| Bids Close | | See Eng. News-Record |
|---|---|---|
| Aug. 18 | Shaker Heights, (Cleveland P. O.) O. | Aug. 10 |
| Aug. 18 | Beckley, W. Va. | Aug. 17 |
| Aug. 20 | Erie, Pa. | July 13 |
| Aug. 21 | Plant City, Fla. | Aug. 10 |
| Aug. 21 | Oxford, N. C. | Aug. 10 |
| Aug. 21 | Toronto, Ont. | Aug. 17 |
| Aug. 21 | Columbus, O. | Aug. 17 |
| Aug. 22 | Canton, O. | Aug. 17 |
| Aug. 22 | New York, N. Y. | Aug. 10 |
| Aug. 22 | Stateville, Ill. | Aug. 3 |
| Aug. 23 | Worcester, Mass. | Aug. 10 |
| Aug. 23 | Carlton, Minn. | Aug. 10 |
| Aug. 23 | Bloomington, Ind. | Aug. 17 |
| Aug. 23 | Nashua, N. H. | Aug. 17 |
| Aug. 23 | Duke, N. C. | Aug. 17 |
| Aug. 25 | Oxford, O. | Aug. 17 |
| Aug. 28 | Wauwatosa, Wis. | Aug. 17 |
| Aug. 28 | Erie, Pa. | Aug. 17 |
| Aug. 28 | Albany, N. Y. | Aug. 17 |
| Aug. 31 | New York, N. Y. | Aug. 3 |
| Aug. 31 | Baton Rouge, La. | Aug. 17 |
| Sept. 1 | Knoxville, Tenn. | July 20 |
| Sept. 5 | Smyrna, Del. | Aug. 10 |
| | Adv. Aug. 10 and 17. | |
| Sept. 6 | Milaca, Minn. | Aug. 17 |
| Sept. 7 | Columbus, O. | Aug. 17 |
| Sept. 11 | Oakland, Cal. | Aug. 10 |
| Sept. 30 | Duluth, Minn. | July 13 |
| Oct. 1 | Duluth, Minn. | Aug. 3 |

### FEDERAL GOVERNMENT WORK

| Bids Close | | See Eng. News-Record |
|---|---|---|
| Aug. 19 | Dredging—New York, N. Y | July 20 |
| Aug. 21 | Dredging—Baltimore, Md. | July 27 |
| | Adv. July 27 to Aug. 17. | |
| Aug. 22 | Post Office—Spanish Fork, Utah | July 27 |
| Aug. 22 | Houses, etc. — Pt. Vicente, Cal. | Aug. 17 |
| Aug. 22 | Post Office—Fond du Lac, Wis. | July 27 |
| Aug. 23 | Retaining Walls — Quantico, Va. | July 27 |
| Aug. 23 | Quay Walls, etc.—Pearl Harbor, H. T. | July 20 |
| Aug. 23 | Dredging—Norfolk, Va. | July 27 |
| Aug. 24 | Roads and Walks — Augusta, Ga. | Aug. 17 |
| Aug. 25 | Extension to Workroom — Ft. Worth, Tex. | Aug. 3 |
| Aug. 25 | Office, Storehouse, etc.—Buffalo, N. Y. | Aug. 3 |
| Aug. 28 | Remodeling — Raleigh, N. C. | Aug. 3 |
| Aug. 28 | Dredging — Providence, R. I. | Aug. 10 |
| | Adv. Aug. 10 and 17. | |
| Aug. 30 | Circulating Loop — Mare Island, Cal. | July 27 |
| Aug. 30 | Stables—Plattsburg, N. Y. | Aug. 17 |
| | Adv. Aug. 17. | |
| Aug. 31 | Canal—Klamath Falls, Ore. | July 27 |
| Aug. 31 | Dredging — Providence, R. I. | Aug. 10 |
| | Adv. Aug. 10 and 17. | |
| Aug. 31 | Remodeling, etc. — Baltimore, Md. | Aug. 17 |
| Sept. 1 | Sand and Gravel—New Orleans, La. | Aug. 10 |
| | Adv. Aug. 10 and 17. | |
| Sept. 1 | Road—Dover, N. J. | Aug. 17 |
| | Adv. Aug. 17. | |
| Sept. 1 | Refrigerating Plants—Perryville, Md. | July 20 |
| Sept. 5 | Dredging — New York, N. Y. | Aug. 3 |
| | Adv. Aug. 3 to 17. | |
| Sept. 5 | Spur-dikes — New Orleans, La. | Aug. 10 |
| | Adv. Aug. 10 and 17. | |
| Sept. 5 | Steel Gates — Nashville, Tenn. | Aug. 3 |
| Sept. 5 | Dykes, etc.—New Orleans, La. | Aug. 3 |
| | Adv. Aug. 10 and 17. | |
| Sept. 5 | Dredge Pontoons, etc.—Mobile, Ala. | Aug. 17 |
| | Adv. Aug. 17. | |
| Sept. 6 | Motors, etc.—Yuma, Ariz. | July 27 |
| Sept. 6 | Dredging—Phila., Pa. | Aug. 10 |
| | Adv. Aug. 10 and 17. | |
| Sept. 7 | Stone—New Orleans, La. | Aug. 10 |
| | Adv. Aug. 10 and 17. | |
| Sept. 14 | Dredging—Norfolk, Va. | Aug. 17 |
| | Adv. Aug. 17. | |

### MISCELLANEOUS

| Bids Close | | See Eng. News-Record |
|---|---|---|
| Aug. 21 | Lighting System — Chicago Heights, Ill. | Aug. 10 |
| Aug. 21 | Paving Sand — New York, N. Y. | Aug. 17 |
| Aug. 22 | Heating and Ventilating Apparatus, etc. — New York, N. Y. | Aug. 17 |
| Aug. 22 | Stone Jetty — Longport, N. J. | Aug. 10 |
| Aug. 22 | Boardwalk Extension — Long Branch, N. J. | Aug. 17 |
| | Adv. Aug. 17. | |
| Aug. 23 | Fine Gravel — New York, N. Y. | Aug. 17 |
| Aug. 25 | Oak Piles, etc. — New York, N. Y. | Aug. 17 |
| Aug. 25 | Tunnel—Merced, Cal. | Aug. 17 |
| Aug. 25 | Clearing, etc., New York, N. Y. | Aug. 17 |
| Aug. 28 | Paving Materials—St. Paul, Minn. | Aug. 17 |
| Aug. 28 | Mechanical Equipment—Sacramento, Cal. | Aug. 3 |
| Sept. 6 | Truck Bodies, etc.—San Francisco, Cal. | Aug. 17 |
| Sept. 15 | Fire Alarm System, etc.—Kansas City, Mo. | |
| Sept. 16 | Strain & Pin Type Insulators —Melbourne, Australia | July 27 |
| Oct. 10 | Steam Turbine, etc.—New Orleans, La. | Aug. 17 |
| | Adv. Aug. 17. | |
| Nov. 4 | Transformers, etc. — Melbourne, Australia | Aug. 17 |
| | Adv. Aug. 17. | |

**Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.**

# Waterworks

## PROPOSED WORK

**N. Y., Batavia**—Plans 4,000 ft. c.i. mains in Lewis and Williams Sts. $15,000. I. J. Carmichael, clk. Noted May 11.

**N. Y., Binghamton**—City plans to purchase chain of small lakes in Chemung Co. and develop same to adequately furnish city with new water supply incl. piping, filter stations, pumps, etc. $200,000-$300,000 (does not include purchase of lakes). W. E. Weller, city engr.

**N. Y., Corning**—See "Sewers."

**N. Y., Endicott**—Endicott-Johnson Co., 108 East Main St., has purchased Silver Lake, near here, and plans to supply city of Endicott with water. Project includes 20 mi. pipe line. Hoadley & Giles, c/o owner, engrs.

**N. J., East Orange**—See "Contracts and Awards."

**Mich., North Branch**—Plans 15,000 ft. 4 and 6 in. c.i. mains, hydrants, tank and tower. C. B. Farnsworth, village clk.

**O., Niles**—Plans 500 ton 24 in. c.i mains in East Robbins Ave. M. Hogan dir. pub. wks.

**O., Piqua**—Plans complete waterworks pumping plant, driving wells and some mains. $350,000. Engineer not selected.

**O., Sidney**—Plans extending mains, 23,700 ft. 4-10 in. pipe, seventy-three 4-10 in. valves and valve boxes, 22,700 lb. specials, etc. B. Coulson, city engr.

**Minn., Fergus Falls**—Voted $30,000 bonds relaying mains, repairing and extending water system. H. Blegan, city engr.

**Kan., Morrill**—Soon takes bids waterworks, $30,000; sewers and disposal plants, $20,000. Shockley Eng. Co., 800 Graphic Arts Bldg., Kansas City, Mo., engrs.

**Ont., Oakville**—Plans filtration plant. $25,000. Address A. Forster, mayor.

**Ont., Port Dover** — Takes bids end of August waterworks. $40,000 bonds voted. Prices wanted on all materials.

## BIDS DESIRED

**N. Y., New York**—Aug. 23, by Bd. Purch., Municipal Bldg., furnishing, delivering, unloading, stacking and storing high pressure c.i. pipe and special castings, for Dept. Water Supply, Gas & Electricity. G. A. Whalen, comr.

**N. J., Madison**—Aug. 30 by Tribus & Massa, engrs., 15 Park Row, New York, artesian well connections, pumping plant and electric equipment for estate of H. McK. Twombly, near here; adv. the issue.

**Pa., Blain**—Aug. 21, by W. L. Smith, pres. Boro Council, building reservoir, laying mains, etc. $50,000.

**W. Va., Wheeling** — Aug. 18, by City Council and W. M. Evans, city clk., 17,000 ft. 30 in. steel force mains, 3,000 ft. 36 in. steel reservoir mains. five 1,000,000 gal. steel storage tanks, 48 in. intake line, intake pier and traveling screens. J. N. Chester, Union Bank Bldg., Pittsburgh, engr. Noted April 13.

**O., Cleveland**—Aug. 23, underpinning filters at Division Ave. filtration plant, incl. 18,690 lin.ft. pre-molded sectional concrete piles. To exceed $25,000. A. V. Ruggles, City Hall, engr.

**O., Cleveland**—Aug. 23, by Cuyahoga Co. for Sect. A of Improvement 16 of Water Supply System for Co. Sewer Dist. 1, 18,900 ft. 6, 8 and 10 in. c.i. pipe. R. F. MacDowell, Court House, engr.

**O., Lyndhurst** (near Cleveland)—Aug. 21, c.i. mains. To exceed $25,5000. S. C. Vessey, clk. F. A. Pease Eng. Co., Marshall Bldg., Cleveland, engrs.

**Ill., Sibley** — Aug. 28, constructing 9 blocks mains, etc., also storage battery and switchboard for electric plant. S. M. Waldon, treas.; adv. this issue.

**Minn., Shakopee**—Aug. 28, by city, water main extensions 3,820 lin.ft. 6 in. c.i. pipe; sewer extensions, 4,666 lin.ft. 8 in. vitr. pipe sewer. C. L. Pillsbury Co., 1200 2nd Ave. S., Minneapolis, engrs.

**Kan., Chanute**—Aug. 22 by C. G. Wood, city clk., water main extension and improvements to purification plant, incl. 2,122 cu.yd. excav., 1,035 cu.yd. rein.-con., 50 cu.yd. plain concrete, 19,140 lb. Class A c.i. pipe, 4,786 lb. special castings H & S, 41,285 lin. ft. 4-16 in. c.i. pipe, 1,225.05 ton 4-16 in. Class B, H & S pipe, 20,000 lb. 4 in. standard special castings, 18,000 lb. 6 in. and larger special castings, 1,475 lb. 6 in. and larger flanged castings, sixty-six 4-16 in. double gate valves and boxes, 17 standard fire hydrants. Black & Veatch, Mutual Bldg., Kansas City, Mo., engrs.

**Cal., Petaluma**—A. F. Tomasini Hardware Co. in market for filter for filtering water in swimming tank, 70,000 gal. capacity.

**Ont., Port Credit** — Aug. 21, by G. W. Gordon, town clk., supplying 2 mi. 4, 6 and 8 in. c.i. pipe, special castings, valves, centrifugal pumps, erecting overhead steel tank, settling basin, filters, reservoir and concrete and brick pumping station, meters, gages, hydrants, etc. $60,000. Gore, Nasmith & Storrie, Confederation Life Bldg., Toronto, engrs. Noted April 20.

## BIDS RECEIVED

**O., Cleveland**—Cuyahoga Co. opened bids Aug. 5, for Impvt. 14 of Water Supply System, 24,570 ft. 4-12 in. c.i. pipe, from Water & Sewer Impvt. Co., 10,923 Detroit Ave., $76,047; E. Cesa, 2462 Baldwin Rd., $81,200; Gantose Constr. Co., Columbia Bldg., $92,250.

**O., Rome** (Hilliards, P. O.) — Franklin Co. (Columbus) opened bids Aug. 10, 13,500 ft. c.i. mains in Sewer Dist. Prairie 1, from Burnip Constr. Co., 223 East Broad St., Columbus, $25,314; Pitt Constr. Co., Fulton Bldg., Pittsburgh, Pa., $26,229; Elcon Eng. Co., 522 Rowlands Bldg., Columbus, $27,034. Noted Aug. 3.

*In July*

*We published* **141** *tips on new waterworks construction as follows:*

| | |
|---|---|
| Proposed work | 42 |
| Bids desired | 43 |
| Bids received | 9 |
| Contracts awarded | 47 |

*No let-up since April.*

**Utah, Ogden**—Furnishing and laying 1,500 ton 12-20 in. c.i. mains, 14,000 cu.yd. earth and 7,000 cu.yd. rock excav., from Western Eng. & Constr. Co., Tempelton Bldg., Salt Lake City, $139,774; F. W. Spencer Co., State St., Salt Lake City, $143,429; Wheelwright Constr. Co., Main St., $148,125. Noted July 17.

**Wash., Seattle**—Opened bids Aug. 4, water mains in Lucille St., et al., 18,150 in. ft. 8 in. Class D c.i. pipe, etc., from Paduano & Co., Seattle, $49,369; V. Ramgalia, Seattle, $49,749; C. L. Creelman, Ry. Exch. Bldg., Seattle, $49,807. Engrs. est. $50,000.

**California**—See "Dams".

**Cal., Reedley**—Erecting 60,000 gal. steel water tank and tower, from Pittsburg-Des Moines Steel Co., Rialto Bldg., San Francisco, $6,599; Chicago Bridges, Steel & Iron Wks., Rialto Bldg., San Francisco, $6,600; Minneapolis Steel & Mchy. Co., 220 W. S. T., Salt Lake City, Utah, $7,648. Noted July 20.

**Cal., Santa Rosa**—Extending waterworks system, from following contractors:

Butte Electric Constr. Co., 534 Folsom St., San Francisco, constructing air-lift for artesian well, rein.-con. aerator, flume, receiving reservoir, 350,000 gal. capacity, pumping buildings, compressors, motors, crane, pipe, meters, electrical machinery, etc., all foregoing and using two 5 in. Byron-Jackson pumps $46,000; two 6 in. Byron-Jackson pumps $45,645; two 6 in. Worthington pumps $46,672; two 5 in. Worthington pumps single stage $46,114; two 5 in. Courtenay pumps $45,630.

Millen & La Voie, 265 9th St., Oakland, constructing rein.-con. receiving reservoir, aerator, flume and fence, pumping buildings, roof for existing reservoir, etc., $34,470.

W. L. Proctor, Sprigg St., constructing concrete reservoir, aerator, flume, pumping buildings, roof for existing reservoir, etc., $28,870.

Rocca & Coletti, San Rafael, constructing pumping station buildings, except electric and pumping machinery, reservoir, except equipment, concrete aerator, without pipe, and control flume; pumping plant buildings $6,897; reservoir 350,000 gal. $13,900; aerator $360, control flume $300.

G. H. Chick, R. F. D. 1, Box 143, Napa, constructing all works using Worthington 11 x 7 x 12 two stage compressors, water works supply Ventura meters, G. E. or Electric Controller Mfg. Co.'s switchboards, Byron-Jackson 5 in. centrifugal pumps, c.i. pipe, etc., all work cost plus 10% with bonus for savings under total cost of $45,250. (Total cost not to exceed $50,000 for completed project). Noted July 20.

## CONTRACTS AWARDED

**N. Y., Brooklyn**—State Hospital Comn., Capitol, Albany, test wells for Brooklyn State Hospital, here, from A. J. Connelly, 100 South 10th St., Newark, N. J., $5,965; Artesian Well & Supply Co., 195 Anthony St., Providence, R. I., $7,850; Ridpath & Potter, Co., Inc., Bourse Bldg., Phila., Pa., $8,500.

**N. Y., Raybrook**—State Hospital Comn., Albany, addition and alterations to water supply system at New York State Hospital for Incipient Tuberculosis, here, to J. J. Fitzpatrick & Sons, 84 Bridge St., Plattsburg, $19,192.

**N. J., East Orange**—Bd. Water Comrs., 438 Main St., additional water supply work, to U. S. Cast Iron Pipe & Fdry. Co., 71 Bway., New York, flanged special castings $155 per ton, bell and spigot special castings $120, 6-16 in. bell and spigot pipe $58.90, 20 and 24 in. bell and spigot pipe $52.90, all f.o.b. Chatham; to Lock Joint Pipe Co., Ampere, 8,000 ft. 20 in. rein.-con. water pipe delivered at side of trench $3.20; to A. P. Smith Mfg. Co., Norman St., 16 in. hub end valves $138 each, 10 in. hub end valves $49, 6 in. hub end valves $20.50, 6 in. flanged valves $23,000, 10 in. flanged check valves $58, 2 in. air valves $34, all f.o.b. Chatham; to United Lead Co., 111 Bway., New York, 4 ton pig lead, f.o.b. Chatham $140; to Babcock & Wilcox, 85 Liberty St., New York, one 132 h.p. water tube boiler erected in existing boiler room $6,989; to D'Olier Centrifugal Pump and Machy. Co., New York, 1 steam turbine driven, centrifugal pump, 2M.G.D. against 261 ft. total head in existing pumping station $7,500; to Ames Iron Wks., 41 East 42nd St., New York, 2 unaflow steam engine driven alternating current generating units, 120 K.V.A. each, 2,300 volts, 60 cycle for two units erected in pumping station, $13,826; to C. H. Wheeler Mfg. Co., 50 Church St., New York, 2 surface condensers, 400 sq.ft. each with crank and flywheel vacuum pump, delivered f.o.b. Chatham, $5,270; to Jaehnig & Peoples, Inc., 221 13th Ave., Newark, inside steam, water, air and auxiliary piping completely erected $18,000; to Mack & Mack, 103 Park Ave., New York, electrical work, incl. 12,000 ft. wood pole, lead cable transmission line, inside and outside wiring, switchboard and 7 transformers, erected complete $24,500. Buildings, structures, well pumps, wells and laying outside pipe will be readvertised. Noted July 6.

**Pa., Coalport**—Boro Council rein.-con. reservoir, 100,000 gal. capacity, to H. O. Ebensburg. Noted July 20.

**Pa., Phila.**—Laying 6, 8 and 12 in. c.i. pipe to A. DeSandro & Son, 3906 North 50th St., $31,174; furnishing 6, 8 and 12 in. c.i. pipe, to R. D. Wood & Co., 300 Chestnut St., $64,100; furnishing 6, 8 and 12 in. stop valves, to W. E. Cooney Co., 519 Arch St., $18,106; furnishing and laying 30 in. steel pipe, to A. J. Ellis, 5724 Marshall St., $21,151. Noted July 20.

**Wis., Blue Mounds**—For rein.-con. reservoir, laying mains, installing and furnishing equipment for waterworks system, to Ayem, Petersen & Rue, Main St., Mt. Horeb. Engrs. est. $25,000.

**Wis., Tomahawk** — Wisconsin Valley Impvt. Co., 1st Natl. Bank Bldg., Wausau, will build rein.-con. and steel reservoir dam, incl. gravel and earth embankment, bv day labor. $100,000.

**Wis., Two Rivers**—Intake crib suction well and suction pipe line, to McMullen & Pitz, 915 Commercial St., Manitowoc. Noted June 15.

**Minn., North St. Paul**—Waterworks extensions and electrification of pumping plant, 36,000 lin.ft. c.i. pipe, etc., to J. J. Connolly, 1007 Reaney St., St. Paul, $50,000. Noted June 29.

**Minn., Storden**—Waterworks, to Pittsburgh-Des Moines Steel Co., Tuttle and South West 10th St., Des Moines, Ia., $9,791. Noted June 29.

**Mont., Harlem**—For filtration plant and 8,000 lin.ft. 6 in. c.i. mains, to J. P. Murphy, Great Falls, $42,680. Noted July 6.

**Okla., Oklahoma City**—Dept. Pub. Property, water filtration plant, to Tibbens & Pleasant, 202 Daniels Bldg., Tulsa, $282,700. Noted July 20.

**Wash., Morton** — Installing Connolly Creek gravity water system, to Auburn Constr. Co., Auburn, $16,000.

**Wash., Seattle**—For 10,200 ft. Class C, and 1,800 ft. Class D c.i. pipe, 20 in. diam., for repairs to city water system, to Amer. Cast Iron Pipe Co., Acipco St., Birmingham, Ala., $48.40 per ton. Engrs. est. $67,000.

**Ont., Kincardine** — H. Hurdon, chn. Waterworks Com., slow sand filter contracts as follows: tubes to Natl. Iron Corp., foot of Cherry St., Toronto; pumps to Goldie-McCulloch Co. Ltd., 64 West Main St., Galt; sewer pipe to Clay Products Agency, Waterworks (Continued)

9 Wellington St. E., Toronto; valves to T. McAvity & Sons Ltd., 95 King St. W., Toronto; sand washer to J. Ingles Co., 14 Strachan Ave., Toronto; gasoline tanks to S. F. Bowser Co., Ltd., 66 Fraser St., Toronto. Noted June 22.

**B. C., Chilliwack**—Elk Creek Waterworks Co. will build mains (mostly wood pipe, also 10 in. steel) by day labor under direction of A. H. Turvey, engr., c/o owner. $50,000.

**B. C., New Westminster**—To Vancouver Eng. Wks., Ltd., 519 6th Ave. W., Vancouver, 8,400 ft. 24 in. steel water pipe, $30,976.

## Sewers

### PROPOSED WORK

**N. Y., Corning**—Plans election to vote on $30,000 bond issue to extend sewers and water mains. W. O. Drake, city engr.

**Pa., Pittsburgh**—Plans relief sewers in Howe St. and College Ave. from existing sewer at Stratton Line to existing 36 in. brick sewer in Elmer St., 24 and 30 in. pipe, $18,700, Beechview Ave. and Parody Way, 15 and 18 in. pipe, $3,000, Morewood and Ellsworth Aves., 24 in. terra cotta pipe, $6,000, Corropolis St., 12 in. terra cotta pipe, $1,000.

**La., Shreveport**—See "Buildings."

**O., Ashtabula**—Preparing plans sewerage system. $1,000,000. G. B. Gascoigne, Leader-News Bldg., Cleveland, engr.

**Mich., Cadillac**—Having revised plans prepared and opens bids about September, 2 story, concrete and brick sewage disposal plant. $50,000. Hoad, Decker & Drury, 302 South State St., Ann Arbor, engrs.

**Mich., Grosse Pointe Farms** (Detroit P. O.)—Plans sewer in Oak St. from Grosse Pointe Blvd. to point north, incl. 890 ft. 12 in. and 1,073 ft. 10 in. vitr. pipe. R. H. Erley, Grosse Pointe Farms, engr.

**Kan., Morrill**—See "Waterworks".

**Kan., Wichita**—Making plans and soon takes bids Storm Sewer 15, College Hill Dist., excavating and laying 1¼ mi. 72 in. sewer pipe and 1¾ mi. pipe ranging from 72 in. to 42 in. Bids on precast concrete pipe, monolithic construction, vitr. segment block or brick. $200,000. P. L. Brockway, Wichita, engr.

**Col., Denver**—Making plans Washington Park Storm Sewer Dist. 2. Will take alternate bids on vitr. pipe, vitr. brick, 2nd class, rein.-con., or 3rd Class segment blocks. $481,810. A. K. Vickery, City Hall, engr.

**Ont., Hamilton**—Having plans prepared sewage disposal plant in eastern section of city. $2,500,000. Gore, Nasmith & Storrie, Confederation Life Bldg., Toronto, engrs.

**Ont., London**—Plans reconstructing several sanitary sewers in business section, vitr. tile pipe, 8 in. up. $250,000. H. A. Brazier, city engr.

**Ont., Port Dover**—Plans 8,000 ft. of 8-12 in. vitr. tile sewer from town limits to Black Creek. $27,000. James, Proctor & Redfern, 36 Toronto St., Toronto, engrs.

**Ont., Port Dover**—Takes bids end of August for sewers. $30,000 bonds voted. Prices wanted on all materials.

### BIDS DESIRED

**N. Y., Brooklyn**—Aug. 23, by E. Riegelmann, boro pres., Boro Hall, sewers in Gravesend Ave. between Kings Highway and Ave. T, Ave. T between Gravesend Ave. and West 5th St., West 5th St. between Ave. T and Ave. U; repairing sewer in Foster Ave. between Ocean Parkway and East 9th St.; repairing pipe sewers in Greene Ave. between Marcy and Lewis Aves.

**N. Y., New York**—Aug. 21, by J. Miller, pres. Manhattan Boro, Municipal Bldg., alterations and improvement to sewer in West 57th St. between 5th and 6th Aves. Former bids rejected. Noted Aug. 10.

**N. Y., St. George** — Aug. 25, by J. A. Lynch, pres. Richmond Boro, Boro Hall, temporary sanitary sewers in Seymour Ave. from Richmond Ave. to point about 400 ft. easterly, Leadley Pl. from Richmond Ave. to point about 300 ft. southerly, Willow Brook Rd. from point about 530 ft. south of Forest Ave. to Forest Ave., Dixon Ave. from Van Riper St. to Villa Ave., Villa Ave. from point about 90 ft. north of Richmond Ave. to point about 100 ft. south of Prospect St.

**N. Y., Spring Valley**—Sept. 7, by Bd. Trustees, sanitary sewerage system and sewage disposal plant. W. S. Coulter, 114 Liberty St., New York, engr.; adv. this issue.

**N. J., Plainfield**—Sept. 5, for 1,000 lin.ft. 7 ft. x 2 ft. 5 in. rein.-con. storm sewer. A. W. Vars, city engr.; adv. this issue.

**O., Marion** — Aug. 31, at office E. A. Schultz, dir. Pub. Serv., sewage treatment works, Contr. A; main sanitary sewer, Contr. B. G. B. Gascoigne, 648 Leader-News Bldg., Cleveland, engr.; adv. this issue. Noted Aug. 10.

**Wis., Rice Lake**—Aug. 22, West side sewerage system, incl. 10,637 lin.ft. 8-18 in. vitr. pipe, 51 manholes, 1 concrete outlet, 1 Imhoff tank, 1 sludge bed. $30,000. J. H. A. Brahtz, 409 Metropolitan Opera House Bldg., St. Paul, Minn., engr. Noted June 8.

**Minn., Eveleth**—Sept. 15, improving sewerage system, incl. septic tank. $264,500. C. M. Downey, 419 Jackson St., engr.

**Minn., Shakopee**—See "Waterworks".

**Minn., Stewart**—Aug. 28, sanitary sewerage system, 17,916 lin.ft. 8-12 in. vitr. pipe, 48 lin.ft. 10 in. c.i. pipe, 2 flush tanks, 45 manholes, etc. $25,000. E. Lestico, clk. Druar & Milinowski, 500 Globe Bldg., St. Paul, engrs.

**Kan., Tonganoxie** — Aug. 25, by City Clerk, complete sewerage system and sewage disposal works, incl. 14,403 lin.ft. 8-12 in., vitr. pipe sewer, 7,581 cu.yd. excav. for disposal works, 39.5 cu.yd. concrete in Imhoff tank, etc., 47 cu.yd. concrete in sand filters, 2,444 lin.ft. 4 in. sewer pipe in underdrains, etc. Black & Veatch, Mutual Bldg., Kansas City, Mo., engrs.

**Nev., Gardnerville**—Sept. 6, by Comrs. Douglas Co., at Minden, complete system for Gardnerville Sewer Dist., 18,000 lin.ft. 6-12 in. vitr. pipe, 8,000 cu.yd. excav., 300 bbl. cement, etc. $30,000. L. H. Taylor & Co., 309 State Life Bldg., Reno, engrs.

**Cal., Redwood City** — Sept. 4, by City trustees, sewers in Jefferson Acres, 11,680 lin.ft. 4-8 in. vitr. pipe, 21 manholes, 2 lampholes; in Rodgers and Standish Sts., 2,300 lin.ft. vitr. pipe sewer, and 1,500 lin. ft. 4 in. vitr. pipe laterals, 6 manholes. C. L. Dimmitt, 1st Natl. Bank Bldg., Redwood City, engr.

### BIDS RECEIVED

**Wis., Milwaukee**—Metropolitan Sewerage Comn. of Milwaukee Co., 508 Market St., intercepting sewer in Watertown Plank Rd., (a) 1,962 ft. 24 in. c.i. pipe siphon, (b) 4,134 ft. 48 in. plain concrete sewer, (c) 1,802 ft. 48 in. rein.-con. sewer, from Mid-West Constr. Co., 253 Walker St., (a) $8.90 per ft., (b) $15.80 (c) $17.40, etc., total $113,777; Wenzel & Henock, 498 27th St., (a) 29,665 (lump sum), (b) $21, (c) $21.50, etc., total $157,008; G. E. Zimmermann, 3402 Grand Ave., (a) $14 (b) $24 (c) $30.40, etc., total $183,721. Noted July 27.

**Wash., Seattle**—Opened bids Aug. 4, grading 11th Ave. W., et al., 11.25 acres clearing from M. Richardson, 6,307 12th Ave. N. E., $53,155, Odman Contg. Co., 2,534 33rd Ave. S., $57,011, Hauge & Espland, Thompson Bldg., $59,769; paving 3rd Ave. W., et al., 50,850 sq.yd. 7 in. concrete, 27,100 lin.ft. concrete curbing, 20,000 cu.yd. earth excav., from A. Tocco & Co., 1125 20th Ave. S., $167,916, D. H. Traphagen, Walker Bldg., $168,984, J. L. Smith, Pioneer Bldg., $168,028; grading and paving Empire Way et al., 162,000 cu.yd. earthwork, 2,600 lin.ft. integral armored concrete curb, 17,400 lin.ft. integral concrete curb, type A, 43,400 sq.yd. concrete paving, 7 in., (a) clay, (b) concrete from J. L. Smith, Pioneer Bldg., (a) $323,798, (b) $323,135, D. H. Traphagen, Walker Bldg., (a) $338,786, (b) $336,642, Jann & Bressi, New York Blk., (a) $343,314, (b) $343,314.

**Wash., Everett**—Opened bids Aug. 2, paving Hewitt Ave. from Broadway to Federal St., 20,000 sq.yd. concrete, removing old wood block surface, from J. W. Hoover & Co., Everett, $146,000. Engrs. est. $150,000.

*In July*

*We published* 150 *tips on new sewer construction as follows:*

| | |
|---|---|
| Proposed work | 42 |
| Bids desired | 58 |
| Bids received | 14 |
| Contracts awarded | 36 |

*Are you hunting these down?*

### CONTRACTS AWARDED

**W. Va., Wheeling**—Sewers in Main, Market and 12th Sts., to W. J. Weekland Co., Charleston, $74,489. Noted July 27.

**O., Akron**—Trunk sewer in Miller Ave., 2,120 ft. of 12-15 in. vitr. clay pipe, and 1,990 ft. 39-54 in. segmental block, to Shullo Constr. Co., 932 2nd Natl. Bldg., $31,031; trunk sewer in Crozier Ave., 730 ft. of 10 in. vitr. clay pipe and 2,025 ft. of 30-42 in. segmental block, to T. E. McShaffrey Constr. Co., 171 South Forge St., $20,268. Engrs. est. $46,950 and $25,189 respectively.

**O., Akron**—M. P. Tucker, dir. Pub. Serv., building Gorge Blvd. Trunk Sewer, 2,595 ft. 30-72 in. brick, to E. and W. McShaffrey Co., 574 Rhodes Ave., $57,277. Engrs. est. $70,000. Noted Aug. 3.

**O., Cleveland**—Cuyahoga Co., 9,240 ft. 8 in. vitr. sewer in Snow Rd., to Gallagher-Burke Constr. Co., 1228 Bonnie View Ave., Lakewood, $67,080. Noted July 27.

**Ind., Indianapolis**—Bd. Sanitary Comrs., (power plant building) in connection with sewage disposal plant, to W. P. Jungclaus Co., 825 Massachusetts Ave., $118,750. Noted July 13.

**Ia., Blairstown**—For 13,087 lin.ft. 8-12 in. sewer pipe to O. M. Anenson, Roland, $12,615; disposal plant to Adams & Graham, Cedar Rapids, $8,519. Noted July 27.

**Minn., Brainerd**—For 5,743 lin.ft. 36-54 in. sewers, in East Maple St. north to Mississippi River, to Riches & Son, Superior, Wis., $38,908. Noted July 13.

**Minn., St. Charles**—New sanitary sewerage system, 33,846 ft. 8 in. and 1,775 ft. 10 in. pipe, 81 manholes, 15 lampholes, Imhoff tank, to Gedney & Murphy, 211 Lumber Exch. Bldg., Minneapolis, $54,400. Noted July 20.

**S. D., Yankton**—Extending sewers, incl. 17,435 lin.ft. 10-36 in. pipe, 41 manholes, 7,000 lin.ft. 10 in. connecting pipe, to Cady & Savonell, Sioux City, Ia., $35,943. Noted July 27.

**Cal., San Luis Obispo**—For 10,900 lin.ft. 6 in. vitr. salt glazed sewer pipe, est., to W. J. Tobin, 527 Santa Ray St., Oakland, $13,378. Noted July 20.

**Ont., Ottawa**—Will build Lady Grey Hospital Sewer, 10,000 ft. of vitr. tile pipe, 8 in. and up, by day labor under supervision of A. F. Macallum, city engr. $80,000.

## Bridges

### PROPOSED WORK

**Pa., Harrisburg**—Dauphin Co. having plans prepared concrete deck girder with three 20 ft. spans over Conewago Creek at Beverly Sta. $30,000. C. M. Hershey, 14 South 2nd St., engr.

**Pa., Lawrenceville**—State plans to reconstruct bridge over river here. Work will be done by Tioga Co. and town. Address W. G. Kellogg, Lawrenceville, supt. highways.

**N. C., Whiteville**—Columbus Co. plans hard surfacing 1 mi. road across Soles Swamp near here. $32,000. E. J. Grimsley, Freeman, Chn. Bd. Comrs.

**Ohio**—Dept. Highways and Pub. Wks., Columbus, received no bids Aug. 11, concrete beam bridge and approaches on Sect. "I" National Rd., Guernsey Co.

**Ohio**—Dept. Highways and Pub. Wks., Columbus, cancelled bids which were to be received Aug. 11, concrete bridge on Sect. "Salineville" Salineville-Yellow Creek Rd., Columbiana Co.

**Mich., Marine City**—State Hy. Dept., Lansing, soon takes bids substructure for Bridge 770901, one hundred and thirty-five ft. swing bridge, here.

**Kan., Lyndon**—Osage Co. takes bids about Sept. 2, 183 ft. steel span, alternate bids on four 50 ft. concrete spans. D. Atkins, Jr., co. engr.

**Tex., Palestine**—Anderson and Cherokee having preliminary inspection and estimates made, 1,700 ft. bridge over Neches River on State Highway 43, between Cherokee and Anderson Counties, steel span, wood trestle and earth approaches, $26,390. W. F. Hutson, State Highway Dept., Austin, engr.

**Ont., Toronto**—City and Dept. Pub. Wks., Ottawa, plan 200 ft. steel bascule span bridge, 60 ft., over western entrance to Toronto Harbor, $500,000 exclusive of approaches which will be built by Harbor Comn. Will probably proceed next year. R. C. Harris, city engr.

### BIDS DESIRED

**N. H., Pinkham Notch**—Aug. 23, by F. E. Everett, state engr. Concord, 125 ft. bridge, riveted steel truss, over stream, here. $25,000.

**N. Y., La Salle**—Aug. 24, by Niagara Town Bd., P. C. Goetzman, clk., 100 ft. steel girder bridge, 32 ft. roadway, over Cayuga Creek. $25,000. Noted June 8.

Bridges (Continued)

**N. Y., Richland**—Aug. 30 at office Town Clerk of Town of Richland in Village of Pulaski, for rein.-con. arch and girder bridge across Salmon River. Concrete-Steel Eng. Co., Park Row Bldg., New York, engrs.; adv. this issue. Noted June 22 under "Pulaski."

**Pa., Mercer**—Aug. 23, by Comrs. Mercer Co., 4 rein.-con. bridges as follows: Bridge 2802, Shenango Twp., 35 ft. girder; Bridge 3011, Springfield Twp., 24 ft. girder; Bridge 508, Deer Creek Twp., 12 ft. girder; Bridge 2307, Hickory Twp., girder super-structure and widening and building present abutments; also Bridge 2306 Hickory Twp., through plate, encased steel girder, 50 ft. span and widening and rebuilding present abutments. $25,000. F. P. Graham, Grove City, co. engr.

**North Carolina**—See "Streets and Roads."

**Ga., Augusta**—Sept. 5, by Streets and Drains Com., Green St. Bridge over Third Level of Canal. W. H. Wise, city engr. and comr. of Pub. Wks.; adv. this issue.

**Ga., Savannah**—Sept. 7, by State Hy. Depts., Georgia and South Carolina, bridge over Savannah River near here, Contr. 1, 243,633 cu.yd. embankment (preferably placed by hydraulic method); Contr. 2, 6,650 cu.yd. concrete, 984,000 lb. reinforcing steel, 28,000 lin.ft. concrete piling, etc. $480,000. Address W. R. Neel, Atlanta, state highway engr.

**Fla., Ft. Lauderdale**—Sept. 5, by Bd. Comrs. Broward Co., 2 steel highway swing drawbridges across Florida Intra-Coastal Canal, one near Pompano, other near Dania. H. C. Davis, engr.; adv. this issue.

**Tenn., Blountville**—Sullivan Co. taking bids concrete bridge over Holstons River near Tuters Mill. $30,000. C. M. Dulamey, Bristol, engr.

**O., Maynard**—Aug. 28, by Comrs. Belmont Co. (St. Clairsville), concrete bridge with rein.-con. slab top, Colerain Twp., near here. A. T. Fogle, co. aud.

**Ind., Greenfield**—Sept. 5, by Comrs. Hancock Co., building two concrete and one steel bridge. C. Boone, Greenfield, c/o engr.

**Ill., Newton**—Aug. 30 by Comrs. Captain Pond Drainage and Levee Dist., at office A. Kasserman, atty., Newton, 1 steel bridge, 170 ft. span, 16 ft. roadway, 2 concrete piers.

**Minn., Moorhead**—See "Excavation and Dredging."

**Tex., New Braunfels**—Sept. 7, by F. G. Blumberg, mayor, at office of City Clerk, rein.-con. bridge across Comal River. Terrell Bartlett Engrs., Calcasier Bldg., San Antonio, engrs; adv. this issue.

### BIDS RECEIVED

**N. Y., Waterford**—C. L. Cadle, supt. Pub. Wks., Albany, opened bids Aug. 9, concrete slab bridge across old Champlain Canal on Broad St., here, from E. J. Doyle, and E. B. Sanford, 95 State St., Albany, $27,615; J. P. Kelly, 17 Saratoga Ave., Cohoes, $28,720; Troy Pub. Wks. Co., U. C. N. Bank Bldg., Utica, $30,430. Engrs. est. $29,720.

**Alabama**—W. S. Keller, state highway engr., Montgomery, opened bids July 25, two 100 ft. concrete arch bridges, one 80 ft. steel span, and one 100 ft. 6 in. span, etc., from Smith Co., 30 3rd Ave. W., Birmingham, $127,771; J. A. Peterson, Montgomery, $129,592; Lawrence, Nixon & Phillips, Jackson, Miss., $132,848. Noted July 6.

**Ohio**—Dept. Highways and Pub. Wks., Columbus, opened bids Aug. 11, bridges in following counties: Highland Co., Sect. "N" Hillsboro-Washington C. H. Rd., two steel bridges, from Perkins Structural Steel Co., Wooster, $10,362; Brookville Bridge Co., Brookville, $10,464. Pickaway Co., Sect. "U" bridge over Scippo Creek, from M. M. Kirton, Circleville, $12,170. Brown Co., Sect. "P" Milford-Hillsboro Rd., top slab bridge, from Fred M. Mark, Washington C. H., $2,571; Miller, Smith & Strayton, Mt. Orab, $2,671.

**O., Cleveland**—Cuyahoga Co. concrete arch bridge on Highland Rd., from Nelson & Kelly, West 112th St., $23,602; Forschner Co., East 10th St. and St. Clair Ave., $24,578; H. B. Hirsch, Cleveland, $25,621. Noted July 13.

### CONTRACTS AWARDED

**N. Y., Cayuga**—New York Central R. R., Grand Central Terminal, New York, furnishing 180 ton steel and castings for 114 ft. steel and concrete bridge, here, to Shoemaker, Satter & Thwait Co., 256 Bway., New York. Noted March 30.

**W. Va., Ripley**—Comrs. Jackson Co., substructure on Carnahan Bridge to Lambert & Cole, Huntington, $11,538; superstructures on Carnahan and King Bridges to Oregonia Bridge Co., Lebanon, O., $7,137 each. Angerona and Cottageville Bridges to Concrete Steel Bridge Co., Clarksburg, $21,948 and $18,701 respectively. Noted July 13.

*In July*

***We published*** **134** ***tips on new bridge construction as follows:***

Proposed work .......... 25
Bids desired .......... 45
Bids received .......... 21
Contracts awarded .......... 43

***Watch these pages***

**North Carolina** — See "Streets and Roads."

**North Carolina**—State Hy. Dept., Raleigh, constructing rein.-con. bridges and culverts on State Projects 604 and 535, Union and Guilford Counties, to Hagedorn Constr. Co., Thomasville, $38,315; State Project 569, Moore Co., to Mayfield Constr. Co., Denmark, S. C., $26,390; State Project 484, Wake Co., to Booz, Lloyd & Co., Marion, $26,147; State Project 702 A, Alleghany Co., to Luten Bridge Co., 405 East 4th Ave., Knoxville, Tenn., $59,964; State Project 952 A, Jackson Co., and State Project 963, Macon Co., to Brooks-Callaway Co., Forsyth Bldg., Atlanta, Ga., $34,771 and $27,841 respectively. Noted Aug. 3.

**Fla., Ft. Lauderdale**—Broward Co. reconstructing bridge over New River Sound, 192 cu.yd. concrete, 90 ft. reconstruction timber trestle, 1,720 lin.ft. timber retaining walls, 7,000 cu.yd. dredged fill, removal of 900 ft. trestle, to J. Olsson, Ft. Lauderdale, $17,277, contract award subject to permit from War Department; improving Las Olas Blvd., 1,470 ft. creosoted timber retaining wall to J. Olsson, Ft. Lauderdale, $6,615; 3,600 ft. builder rip rap and 6,200 cu.yd. rock fill, to Hall & Marshall, Ft. Lauderdale. $14,369. Noted July 20.

**Alabama**—W. S. Keller, state highway engr., Montgomery, two 80 ft. steel spans and concrete girders on concrete pile bents, total length 1,037 ft., over Cubahatchee, Caleebee and Little Caleebee Creeks, Macon Co., to Austin Bros. Bridge Co., Hurt Bldg., Atlanta, Ga., $73,764. Noted June 29.

**Alabama**—State Hy. Dept., Montgomery, Rooster Bridge over Tombigbee River on Dixie Overland Highway at Moscow Ferry, Marengo and Sumter Counties, two 230 ft. and one 160 ft. spans, concrete approach and substructure, Waddell lift, total length 988 ft. 10 in., 18 ft. roadway, to Doullet & Williams Co., 816 Howard Ave., New Orleans, La. Virginia Bridge & Iron Co, (sub. contractors)) to furnish and erect superstructure.

**Alabama**—State Hy. Dept., Montgomery, 1,000 ft. bridge, Waddell type of vertical lift span, across Tombigbee River, at Moscow Landing, near Demopolis, Marengo and Sumter Counties, to Doullut & Williams, Howard Ave., New Orleans, La., $235,075. Noted July 27.

**Tennessee**—State Hy. Dept., Nashville, concrete arch bridge over Rocky River on Warren-Van Buren Co. line, Federal Aid Project 79, to Warren County Constr. Co., Stahlman Bldg., Nashville, $25,956. Noted July 13.

**Ohio**—Dept. Highways and Pub. Wks., repairing bridge on National Rd., Sect. "N," Clark Co., to J. Fox, Brookville, $2,286; constructing concrete girder bridge and abutments, Lima-Sandusky Rd., Sect. "F," Hancock Co., to P. Alge, Arlington, $3,044; concrete girder bridge, Marysville-Kenton Rd., Sect. "H," Union Co., to G. A. Lofgren, Marysville, $3,756; concrete beam bridge, Mansfield-Millersburg Rd., Sect. "B-1," Holmes Co., to Shrimplin & Lewis, Killbuck, $5,772; rein.-con. bridge, National Rd., Sect. "R," Muskingum Co., to Adams Co., Zanesville, $9,684; concrete girder bridge Columbus-Wooster Rd., Sect. "A," Knox Co., and concrete girder bridge Columbus-Wooster Rd., Sect. "E," Knox Co., to Logsten & Breckler, Danville, $4,308 and $3,857 respectively. Noted Aug. 10.

**O., Columbus**—R. W. Smith, clk. Franklin Co to I. E. Smith, Richmond, Ind., constructing and paving approaches to Greenlawn Ave. Bridge, 8,100 cu.yd. fill and 2,800 sq.yd. bituminous macadam, $17,542; extending bridge 179 on McKinley Rd., Franklin Twp., $1,525; constructing culvert 174 on McKinley Rd., Franklin Twp., $2,536.

**Minnesota**—State Hy Dept., St. Paul, Bridge 3252, State Project 34-24, steel, one lift span and three 60 ft. approaches, over Mississippi River, Itasca Co., to Minneapolis Bridge Co., Metropolitan Life Bldg., Minneapolis, $45,445. Noted Aug. 10.

**Missouri**—State Hy. Dept. at div. office Canton, one 85 ft. steel, one 30 ft. rein.-con. spandrel filled arch, one 24 ft. and three 30 ft. rein.-con. deck girder, one 14 ft. and two 20 ft. rein.-con. slab spans, 18 ft. roadways, on Federal Aid Project 38, Lewis Co., to O. J. Hanick, 4066 Lindell St., St. Louis, $35,370. Noted Aug. 3.

**Wash., Yakima** — Yakima Co., 252 ft. steel bridge, 20 ft. roadway, across Naches River, two concrete abutments, to Union Bridge Co., Central Bldg., Seattle. $46,194. Engrs. est. $40,000. Noted July 27.

## Dams

### PROPOSED WORK

**N. Y., Binghamton**—Binghamton Light Heat & Power Co., 172 Washington St., purchased Rockbottom Dam, plans to improve and enlarge same to make it capable of furnishing power to industries of Binghampton.

**Ia., Harvey**—City having plans prepared 800 ft. concrete dam, 10 ft. head, 2,400 hp. $270,000. Fargo Eng. Co., West Cortlandt St., Jackson, Mich., engrs., Burns & McDonnell, Interstate Bldg., Kansas City, Mo., associated engrs.

**Que., Quebec**—Dept. Lands & Forests of Provincial Government, having plans prepared and soon takes bids, dam at Lake Kenegami. $1,800,000.

### BIDS RECEIVED

**Pa., Greenville**—L. B. Taylor, concrete and wood dam across Shenango River, on Smathers Estate, from Universal Constr. Co., Empire Bldg., Pittsburgh, $26,194; W. McIntyre & Sons, Sharon, $26,731; Lake Erie Constr. Co., Perry Wayne Bldg., Cleveland, O., $30,870.

**California**—Yuba Development Co., Hobart Bldg., San Francisco, (a) concrete arch dam, raising present dam from 45 ft. to 175 ft., enlarged dam to be 500 ft. long on crest, 41 ft. thick at base, 6 ft. thick at top; (b) concrete power house, from Bent Bros., 1714 Eagle Ave., Los Angeles, (a) $330,650, (b) $12,974; W. A. Kraner, Balboa Bldg., San Francisco, (a) $345,650, (b) $14,477; J. L. McLaughlin, 251 Kearny St., San Francisco, (a) $372,470, (b) $17,550. Owner will furnish cement, steel, pipe, etc.

## Railways

### PROPOSED WORK

**New York**—See "Miscellaneous".

**Pennsylvania**—Eagles Mere R.R. Co., Eagles Mere, plans to improve road, 10 mi. long, narrow gauge. Work includes changing entire road to standard gauge and possibly electrifying same. $25,000. H. V. Yeager, genl. Mgr.

**Ontario**—Grand River Electric Ry., Galt, having plans prepared interswitching line at Simcoe. $30,000. F. H. Midgley, Galt, ch. engr.

### CONTRACTS AWARDED

**Ohio**—U. S. Coal Co., Citizens Bldg., Cleveland, installing 2½ mi. single track railroad siding, 60,000 cu.yd. grading, to H. L. Carr, Frederick Bldg., Cleveland. Engrs. est. $85,000. Wood ties and steel rails have been purchased.

**Kansas**—Atchison, Topeka & Santa Fe, Ry. Exch. Bldg., Chicago, 48 mi. railroad from Ellinor to Eldorado, to Bates & Rogers, Old Colony Bldg., Chicago. $3,000,000.

## Excavation and Dredging

### PROPOSED WORK

**N. Y., Syracuse**—Plans flood control of Furnace Brook. $75,000. T. H. Mather, city engr.

**Wis., Union Grove**—Hoosier D. D., making plans 2 mi. 10-15 in. clay tile drains and some open ditch work. $25,000. W. E. O'Brien, Union Grove, engr.

**Cal., Live Oak**—Reclamation Dist. 2056 had plans prepared 40 mi. ditches ranging from 3 to 6 ft. wide, 5 ft. deep, 416,000 cu.yd. excav., 3,000 lin.ft. of 12-36 in. con-

Excavation and Dredging (Continued)

crete pipe for laterals, 148 cu.yd. concrete for structures. W. Stanton, Live Oak, engr.

**Cal., Merced**—Merced Irrigation Dist. soon takes bids 30 mi. laterals. R. C. Starr, ch. engr.

### BIDS DESIRED

**O., Wooster**—Aug. 29 at office of C. F. Schopf, secy. Joint Bd. Comrs. Wayne and Holmes Counties, Court House, draining and dredging Killbuck Creek; adv. this issue.

**Minn., Moorhead** — Aug. 26, by A. O. Houglum, aud. Clay Co., Co. Ditch 45, 10 mi. main ditch, 60,621 cu.yd. excav.; 36,587 cu.yd. excav. in Lateral 1, 32,587 cu.yd. excav. Lateral 2, clearing and grubbing 4 mi., leveling 6 mi. old spoil bank, 2 new and 1 rebuilt wooden bridges, 4 steel I beam bridges on concrete abutments, 7 rebuilt I beam bridges on concrete abutments, involving 684 cu.yd. concrete, 34,800 lb. structural steel, 1,845 lb. reinforcing, 783 cu.yd. structural excav.

**Cal., Biggs**—Aug. 28, by Dirs. Recl. Dist. 200 of Butte Co., constructing drainage system. To exceed $25,000. W. W. Green, Biggs, engr.

**Cal., Merced**—See "Miscellaneous."

### BIDS RECEIVED

**Ore., Grants Pass**—Grants Pass Irrigation Dist. opened bids Aug. 8, excavating main canal, sta. 0 to 333, (except 6 to 26 completed), 167,000 cu.yd. dry earth and 13,000 cu.yd. dry rock excav., from P. Welch, Medford, $73,580; Pacific Bridge Co., East Salmon St., Portland, $119,343; J. Hampshire, Grants Pass, $119,930. Engrs. est. $100,000. Noted July 20.

### CONTRACTS AWARDED

**Ind., Boonville**—Warrick Co., 77,650 ft. Cypress Creek Dredge Drain, 1,374,025 cu.yd. earth excav., to R. H. McWilliams, Exch. Bldg., Memphis, Tenn., $123,272. Engrs. est. $150,000. Noted Aug. 10.

**Minn., Olivia**—Renville Co., Co. Ditch 92, 92,263 cu.yd. excav., to Mulgrew & Sons Co., Dubuque, Ia., $10,983; 6 timber bridges, to E. C. Fritze, Olivia, $3,000; 149,500 lin.ft. 5-36 in. tile, material and labor, to Kirscher Bros., Olivia, $62,840. Noted July 13.

**Cal., Merced**—Merced Irrigation Dist., constructing Le Grande Lake-Yosemite Canal, Div. 1, including canal 16 ft. wide on bottom, 7.8 ft. deep, will be done by district; Div. 2 including 6,400 ft. canal, 16 ft. wide on bottom, 7.8 ft. deep, 6,850 ft. canal, 8 ft. wide on bottom, 5.5 ft. deep, 7,450 ft. canal, 5 ft. wide on bottom, 5.5 ft. deep, and Div. 3, including 23,535 ft. canal, 8 ft. wide on bottom, 5.5 ft. deep, 16,425 ft. canal, 5 ft. wide on bottom, 5.5 ft. deep, 4,740 ft. canal, 5 ft. wide on bottom, 4.2 ft. deep, to C. R. Adams, Briggs. Noted Aug. 10.

## Streets and Roads

### PROPOSED WORK

**Pa., Mechanisburg**—Plans paving 1,700 ft. South Market St. from Simpson St. to Elmwood Ave., rein.-con., alternate types will be considered. $28,000. C. Bryan, Carlisle, engr.

**Pa., Pittsburgh**—Soon takes bids repaving Smithfield St. with granite block. $35,000.

**N. C., Thomasville**—Plans paving South Main St. from Jewel Cotton Mills to Baptist Orphanage, East Guilford St. to Cemetery St., and Cemetery St. back to North Main St., concrete or some type of asphalt. $75,000.

**N. C., Whiteville**—Columbus Co. plans 3 concrete bridges across Soles Swamp near here. $30,000. E. J. Grimsley, Freeman, chn. Bd. Comrs.

**Florida**—State Hy. Dept., Tallahassee, rejected bids opened June 14, surfacing 18 mi. State Rd. 3, between De Leon Springs and Putnam Co. line, Volusia Co. Noted June 23.

**Florida**—State Rd. Dept., Tallahassee, rejected bids opened June 27, surfacing with bituminous macadam on crushed stone, 10 mi. Project 32, from Duval Co. line north, Nassau Co., and 8 mi. Project 17, between Bullards Creek and Hillsborough Co. line, Manatee Co. Noted July 6.

**Fla., Jacksonville**—Plans to issue time warrants for $33,000 for sidewalks. W. E. Sheddan, city engr.

**La., Shreveport**—See "Buildings."

**Tenn., Nashville** — Making preliminary plans widening 8th St. from Church St. to Bway. $100,000. W. W. Southgate, City Hall, engr.

**Ohio**—Dept Highways and Pub Wks., Columbus cancelled bids that were to be opened Aug. 11, grading, bridging and paving 1.31 mi. Sect. "G" Bucyrus-Cresline Rd., Crawford Co., rein.-con., brick, bituminous macadam asphalt or tar.

**Ohio**—Dept. Highways and Pub. Wks., Columbus received no bids Aug. 11, grading, bridging and paving 2.731 mi. Sect. "A" Chagrin Falls-Cuyahoga Falls Rd., Cuyahoga Co., rein.-con., or brick; 0.83 mi. Sect. "Medina West" Ashland-Medina Rd., Medina Co., rein.-con. or monolithic brick.

**O., Columbus**—Plans grading, bridging and paving 4 mi. Columbus-Wooster Rd. $182,000. C. C. Lattimer, Court House, engr.

**O., Youngstown**—City Council authorized $48,180 bond issue for paving Hartzell, Bella Vista and Oneta Sts., brick or macadam. I. Turner, city engr.

**Ind., Ft. Wayne** — Allen Co. plans paving 6.3 mi. Hoagland Rd., 16 ft., 59,099 sq.yd. concrete on concrete. $98,170. A. W. Grosvenor, Courthouse, engr.

**Ind., Goshen**—Elkhart Co. plans paving 13,840 ft. Fish Lake Rd., 18 ft., 27,679 sq.yd. concrete. $63,250. C. L. Kinney, Courthouse, engr.

**Ind., Hammond**—Lake Co. plans grading and gravel surfacing 33,400 ft. Leo Bixenman Rd., 16 ft. $36,814. R. Seely, Hammond, engr.

**Ind., New Albany**—Floyd Co. plans grading and gravel surfacing 31,287 ft. Elizabeth and New Albany Ridge Rd., 16 ft. $35,000. M. M. Boland, Courthouse, engr.

**Ind., Spencer**—Owen Co. plans surfacing 13,274 ft. Henry Rentschler Rd., 18 ft., crushed stone. $27,300. L. Drescher, Courthouse, engr.

**Mich., Grosse Pointe Farms** (Detroit P. O.)—Plans grading and paving Oak St. from Grosse Pointe Blvd. to Ridge Rd., incl. 6,125 sq.yd. 9 in. concrete, 4,600 lin.ft. concrete curbing, $35,000; 4,000 ft. Moran Rd., 10,100 sq.yd. 9 in. concrete, 7,550 lin.ft. concrete curbing, $50,000. R. H. Erley, Grosse Pointe Farms, engr.

**Kan., Iola**—Allen Co. soon takes bids paving 12.8 mi. Humboldt Elsmore Rd., 16 ft., bituminous macadam. A. R. Stroup, Iola, engr.

**Kan., Kansas City** — Wyandotte Co. making plans paving 1¾ mi. Sortor Rd., 16 ft., waterbound macadam. O. K. Williamson, Co., engr.

**Kan., Kansas City**—Wyandotte Co. soon takes bids paving 1½ mi. Carlton Rd., 16 ft., waterbound macadam, 1½ mi. Golden Belt Rd., Sect. A, 18 ft., concrete bituminous concrete or asphaltic concrete. O. K. Williamson, Co. engr.

**Missouri**—State Hy. Dept., Jefferson City, plans 8.506 mi. road from Wayland to Keokuk 24 ft., Federal Aid Project 171, Clark Co., 22,679 cu.yd. earth excav., 11,566 cu.yd. borrow, 500 cu.yd. per 100 ft. overhaul, 160.6 cu.yd. concrete, 2,885 lb. reinforcing, 60,071 sq.yd. gravel surfacing, 12 ft. wide, 7 in. at centre, 4 in. at edges, etc. B. H. Piepmeier, state highway engr.

**Tex., Memphis**—Attorney Generals Dept., Austin, approved $65,000 bond issue for street paving and improvements. Montgomery & Ward, Wichita Falls, consult. engrs.

**Tex., Wichita Falls**—Wichita Co. to vote Aug. 22 on $150,000 bond issue for branch county hospitals at Electra, Iowa Park and Burkburnett. J. P. Jones, co. judge.

**Col., Denver**—Making plans surfacing 2½ mi. Bway Paving Dist. 6, 2 in. wearing surface on 5 in. concrete or 2 in. wearing surface on 4 in. asphaltic, commonly known as black base. $166,858. A. K. Vickery, City Hall, engr.

**Cal., Fresno**—Had revised plans prepared improving Farris Ave. between Belmont and Hedges Aves., 131,610 sq.ft. grading, 119,804 sq.ft. asphaltic pavement, 2,304 sq.ft. concrete gutter, 317 lin.ft. concrete curb, etc. W. Stranahan, city engr. Noted Aug. 10.

**Cal., Stockton**—Had plans prepared improving Pershing Ave., Argonaut St., et al., 11,266 cu.yd. cut, 9,984 cu.yd. fill, 23,907 lin.ft. concrete curb and gutter, 134,255 sq.ft. cement walks, 448,081 sq.ft. 3 in. asphaltic concrete on 3 in. macadam. $145,000. W. B. Hogan, city engr.

**Ont., Hamilton**—Plans 12.500 sq.yd. asphalt pavements on concrete Central Ave. $4,500, Woodbine Crescent $8,000, Stirton St. $5,500, Alandale St. $5,400, Hope St. $9,000, Dunsmore Ave. $5 500, Edgemount Ave. $6,900, Alice St. $5,400, Albermarle Ave. $6,000; also 200,000 sq.ft. concrete sidewalks, Kenilworth Ave. and King St. $5,000. Houghton, Ashford and Wexford Aves. $9,000, Weir St. and Tragina Ave. $17,000, Barons Rd., Dunsmore, Roxboro, Tuxedo, Paling and Hampton Aves. $35,000. E. R. Gray, city engr.

**Ont., Hamilton**—Plans paving Craigmiller Ave. from Ottawa St. to Rosslyn Ave., 3,000 sq.yd. asphalt, $11,000, Hunter St. from Ferguson to Victoria Aves., 6,000 sq. yd. asphalt, $24,000. E. R. Gray, city engr.

**Ont., Simcoe**—Having plans prepared and soon takes bids paving Argyle, Robinson, Queen and West Sts., 18,500 sq.yd. tarvia macadam, $75,000, and possibly a concrete bridge at additional cost of $40,000. G. R. Marston, city engr.

### BIDS DESIRED

**Maine**—Aug. 25, by State Hy. Comn., Augusta, surfacing with bituminous macadam, 2.64 mi. highway in Brighton, and 1 mi. in Rockport-Camden; gravel surfacing 5.8 mi. in Turner, 3.16 mi. in Perry, 3.67 mi. in Rome and New Sharon, and 3.37 mi. in New Sharon; cement concrete surfacing 3.78 mi. in Presque Isle. P. D. Sargent, ch. engr.

**New York**—Aug. 29, by H. S. Sisson, comr. State Hy. Dept., Albany, improving highways in Erie, Franklin, Hamilton, Lewis, Orange, Saratoga, Washington and Wyoming Counties, repairing highways in Livingston, Madison, Oswego, Rensselaer and Steuben Counties; adv. this issue.

**N. Y., Long Island City**—Aug. 21, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., recurbing, reflagging and paving Dutch Kills St. from Jackson Ave. to tracks of Long Island R.R., 1st Ward, Dutch Kills St. from Jackson Ave. to point about 400 ft. southerly, sheet asphalt on concrete, thence to railroad will be second hand granite block; paving for width of 20 ft. adjacent to northerly curb line North Jane St. from Vernon Ave. westerly to its terminus, granite block; Howland St. from Wolcott to Ditmars Aves., bituminous macadam; Pettit Pl. from Judge to Ithaca Sts., sheet asphalt; 122nd (Brevoort) St. from Metropolitan to 84th (St. Ann's) Aves., sheet asphalt on concrete; grading, regrading, curbing and paving South Jane St. from Ely to Van Alst Aves., granite block on concrete; Van Alst Ave. from South Jane St. to Harris Ave., second hand granite block on sand; grading, curbing and laying sidewalks on Crown Pl. from Opdyke St. to Corona Ave.; 81st St. (Nevada Ave.) from 91st to Atlantic Aves.; 122nd (Brevoort) St. from Metropolitan to 84th (St. Ann's Aves.); grading, curbing, laying sidewalks and paving Gleane St. from Baxter to Britton Aves., sheet asphalt on concrete; curbing and laying sidewalks on Gates Ave. between Fresh Pond Rd. and Prospect Ave., 2nd Ward; recurbing and paving Bleecker St. from Forest Ave. to John St., sheet asphalt on concrete; grading westerly sidewalk and gutter spaces, setting curb, etc., on 126th (North Villa) St. from Metropolitan to Hillside Aves., 4th Ward; grading, etc., 42nd St. from Jackson to Hayes Aves.; receiving basins in westerly corner of Ely and Van Alst Aves. and southerly corner of Van Alst Ave.; east and north corners of Judge St.; southerly corner of Metropolitan Ave.; northerly and westerly corners of Britton Ave.

**N. Y., Long Island City**—Aug. 22, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., grading, curbing, recurbing, flagging, reflagging and paving, etc., 46th St. from Jackson to Roosevelt Aves., Louona Ave. from Roosevelt to Kingsland Aves.; paving 7th Ave. from Washington to Graham Aves., 1st Ward, all sheet asphalt on concrete.

**N. Y., New York**—Aug. 21, by J. Miller, pres. Manhattan Boro, Municipal Bldg., paving (1) Fort Washington Pl. between West 181st and 183rd Sts., (2) Broad St., (3) 78th St.

**N. Y., Rochester**—Aug. 23 by Bd. Contr. and Supply resurfacing North St. from Main to Portland Aves., asphalt. $102,320. C. A. Poole, city engr. Noted April 20.

**N. Y., Waterloo**—Aug. 28, by Bd. Trustees paving 21,700 sq.yd. various streets, bituminous macadam, (penetration method) A. R. Moore, clk. Noted July 27; adv. this issue.

**N. J., Freehold**—Aug. 28, by Mayor and Boro Council, Municipal Bldg., reconstructing Throckmorton St. C. A. Niles, Municipal Bldg., boro engr.; adv. this issue.

**N. J., Red Bank**—Sept. 6, by Monmouth Co., Court House, Freehold, constructing State Highway Route 4, Sect. 5A, Maple Ave., here. G. K. Allen, Jr., co. engr.; adv. this issue.

**N. J., Somerville**—Sept. 1, by Somerset Co., Court House, constructing State Highway Route 9, Sect. 7A, from Grove St. through East Main St., North Gaston and Union Aves. to easterly boro line. H. C. Van Emburgh, co. engr.; adv. this issue.

**N. J., Somerville**—Sept. 8, by Somerset Co., Court House, constructing State Highway Route 16, Sect. 4, from Pluckamin to Somerville. H. C. Van Emburgh, Court House, co. engr.; adv. this issue.

**Pa., Beaver**—Aug. 22, by M. Thompson, clk., College Hill, paving 4th Ave., College Hill, asphalt on concrete. $75,000. I. Linderman, c/o Clerk, engr.

**Pa., Youngsville**—Aug. 28, by A. White, clk. Warren Co., paving 3,636 ft. Main St., rein.-con. (County's share of work) $25,000. Village's share of work noted Aug. 3.

## Streets and Roads (Continued)

**Maryland**—Aug. 29, by State Roads Comn., Baltimore, building 8 sections state Highways in following counties: Allegany Co., Contr. A-21; Frederick Co., Contr. F-57; Howard Co., Contrs. HO-27 and HO-30; Anne Arundel Co., AA-25; Calvert Co., Contr. C-13; Charles Co., CH-21; St. Marys Co., Contr. SM-20. J. N. Mackall, chn.; adv. this issue.

**Virginia**—Aug. 24, by State Hy. Comn., Richmond, paving 10.29 mi. road between Pulaski and Max Meadows, State Project 151, Pulaski and Wythe Counties, 18 ft., 32,160 cu.yd. excav., 1,132 ft. pipe, 606 cu.yd. concrete, 23,000 lb. reinforcing, etc., $200,000; 1.84 mi. roads, State Project S-219, 5,500 cu.yd. excav., 366 ft. pipe, etc., $50,000. H. G. Shirley, Richmond, chn.

**North Carolina**—Aug. 30, by State Hy. Comn., Raleigh, hard surface (concrete or asphaltic paving), incl. grading, etc., in Pitt, Columbus, Durham, Orange, Davidson, Rockingham, Anson, Cabarrus, Mecklenburg, Surry, Wilkes, Cleveland, Buncombe and Rutherford Counties; topsoiling, sand-clay or gravel surfacing, incl. grading, etc., Bertie, Martin, Ashe, Wilkes, McDowell and Rutherford Counties; penetration or water-bound macadam in Pender Co.; bridges in Brunswick, Rockingham, Davidson, McDowell and Mitchell Counties; adv. this issue.

**S. C., Charleston**—Aug. 24, by Charleston Co. Hy. Comn., surfacing 2.17 mi. road between navy yard and port terminals, incl. 5,564 cu.yd. common excav., 20,374 sq.yd. concrete surfacing, etc.

**S. C., St. George**—Sept. 1, by Dorchester Co. Hy. Comn., surfacing 4.46 mi. Orangeburg-Charleston Highway, incl. 32,884 cu. yd. common excav., 11,424 cu.yd. sand clay surfacing, 735 lin.ft. rein.-con. pipe, etc.

**Georgia**—Sept. 1, by State Hy. Dept., Senate Chambers, State Capitol, Atlanta, grading 3.73 mi. Cleveland-Blairsville Rd., beginning at Neel Gap on top Blue Ridge Mountains and extending toward Blairsville, Federal Aid Project 284, Union Co., 2,750 lin.ft. drain pipe, 50,930 cu.yd. earth, 36,337 cu.yd. rock and 1,421 sta.yd. overhaul excav., 41.5 cu.yd. concrete, 5,186 lb. reinforcing, 66.462 acres clearing; 10.08 mi. Brunswick Davieu Rd. from Brunswick to Broadfield, Federal Aid Project 261, Glynn Co., 358 lin.ft. 24-30 in. t. s. v. c. pipe, 10,729 cu.yd. common, 41,226 cu.yd. borrow and 6,870 sta.yd. overhaul borrow excav., 106,163 sq.yd. clay gravel surfacing, 21.64 acres clearing, 29.66 cu.yd. concrete, etc. W. R. Neel, Peachtree Bldg., Atlanta, highway engr.

**Ga., Savannah**—Aug. 23, by G. R. Butler, clk. Chatham Co., paving 4½ mi. Savannah-Tybee Rd., between sta. 409-436 and sta. 642-679, asphalt or concrete.

**Ga., Thomasville**—Taking bids paving South Main St. from Jewel Cotton Mills to Baptist Orphanage, East Guilford to Cemetery Sts. and Cemetery St. to North Main St., 30,000 sq.yd. vitr. brick, asphalt or concrete.

**O., Cleveland**—Aug. 21, grading and landscape work in Euclid Park, Andrew J. Rickoff, Lafayette, Mt. Auburn, Audubon, Patrick Henry and Warner Schools. $50,000. W. R. McCormack, East 6th St. and Rockwell Ave., engr.

**O., Cleveland**—Aug. 23, paving East 55th St. from Brow to Harwood Aves., Halliday Ave. from Ivanhoe to Nottingham Rds. and Kipling Ave. from Ivanhoe Rd. to Nathaniel Ave., with brick. To exceed $25,000. R. Hoffman, 618 City Hall, engr.

**O., Columbus**—Aug. 30, by Franklin Co., grading, bridging and paving 10.3 mi. Alkire Rd., Franklin, Jackson, Prairie and Pleasant Twps., 16 ft., bituminous macadam. $270,241. C. C. Lattimer, Court House, engr.

**O., Greenfield**—Aug. 28, at office of G. Shrock, village clk., grading and paving Jefferson St. from 6th to 10th Sts., vitr. brick, asphalt, warrenite, bitulithic or other material.

**Ind., Ft. Wayne**—Aug. 22, by Comrs. Allen Co., grading and gravel surfacing 2.67 mi. Klopfenstein Rd., and 2.17 mi. Ruhl Rd., both 18 ft., $26,000 and $25,600 respectively. A. W. Grosvenor, Court House, engr. Noted Aug. 10.

**Ind., South Bend**—Aug. 21, by Comrs. St. Joseph Co., paving 20,075 ft. C. A. Carlisle Rd., 16 ft., 35,667 sq.yd. concrete on concrete. $92,000. P. R. Gillen, Court House, engr.

**Michigan**—Aug. 23, by State Hy. Dept., Lansing, grading and surfacing 4.52 mi. Federal Aid Project 85, Lapeer Co., 36,733 cu.yd. excav., 42,391 sq.yd. gravel. F. F. Rogers, state highway comr.

**Michigan**—Aug. 24, by State Hy. Dept., Lansing, grading and surfacing 6.98 mi. State Trunk Line Rd. 22-11, Sect. B, Leelanau Co., 56,809 cu.yd. excav., 65,518 sq. yd. gravel. F. F. Rogers, state highway comr.

**Michigan**—Aug. 24, by State Hy. Dept., Lansing, grading 8.862 mi. State Trunk Line Rd. 28-9, Sect. B, Baraga Co., 67,570 cu.yd. earth and 3,821 cu.yd. rock excav., 33.7 acres clearing. F. F. Rogers, state highway comr.

**Michigan**—Aug. 29, by State Hy. Dept., Lansing, grading 4.258 mi. State Trunk Line Rd. 25-4, Luce Co., 69,716 cu.yd. excav. F. F. Rogers, state highway comr.

**Michigan**—Aug. 29, by State Hy. Dept., Lansing, grading and surfacing 5.996 mi. Assessment Dist. Rd. 207, Huron and Tuscola Counties, 13,327 cu.yd. excav., 56,184 sq.yd. gravel. F. F. Rogers, state highway comr.

**Michigan**—Aug. 30, by State Hy. Dept., Lansing, grading and surfacing 2.802 mi. State Trunk Line Rd. 46-14, Sect. A, Montcalm Co., 15,109 cu.yd. excav., 26,300 sq.yd. gravel. F. F. Rogers, state highway comr.

**Michigan**—Aug. 30, by State Hy. Dept., Lansing, grading and surfacing 2.802 mi. State Trunk Line Rd. 46-14, Sect. A, Montcalm Co., 15,109 cu.yd. excav., 26,300 sq. yd. gravel. F. F. Rogers, state highway comr.

**Ill., Waukegan**—Aug. 28, by Road and Bridge Com. at office C. E. Russell, supt. highways of Lake Co., Court House, portland cement concrete paving Sect. X-15 D, Grand Ave. from Gurnee westerly to Lake Villa Rd.; adv. this issue.

**Wis., Beloit**—Aug. 21, by Bd. Pub. Wks., new pavement, etc., State St. from Public Ave. to state line, 10,500 sq.yd. 4 in. vitr. block on 6 in. concrete, sheet asphalt on 7 in. concrete, one course rein.-con. or creosoted blocks on 6 in. concrete, 320 lin. ft. combined concrete curb and gutter, 4,600 cu.yd. grading incl. removal of present brick pavement, 1,200 sq.yd. interurban track construction, etc.; Portland Ave. from 4th to Hackett Sts. and from Hackett to Lincoln Sts., 12,600 sq.yd. sheet asphalt on 5 in. concrete, asphaltic concrete on 5 in. concrete or one course rein.-con., 1,500 lin.ft. combined concrete curb and gutter, 4,000 cu.yd. excav. G. E. Heebink, City Hall, engr. Noted Aug. 3.

**Wis., White Fish Bay**—Aug. 21, by W. Volkmann, village clk., 14,034 sq.yd. concrete pavement and 5,267 cu.yd. grading.

**Ia., Elkader**—Aug. 21, for 21,650 sq.yd. paving, (various types), 11,000 lin.ft. concrete curb and gutter, 6,450 cu.yd. excav. $52,000. M. Tschirgi & Son, 712 Amer. Trust Bldg., Cedar Rapids, engrs.

**Minn., Blue Earth**—Sept. 1, by Faribault Co., grading, etc., State Rd. 13, Job 2203, 82,000 cu.yd. excav., 66,000 cu.yd. overhaul, 1,524 lin.ft. 12-36 in. portable culverts. $25,000. L. Quarve, Blue Earth, engr.

**Kan., Wellington**—Sept. 1, by Clerk Sumner Co., grading 8.425 mi. Meridian Rd., Sects. D and E, Federal Aid Project 35, 29½ ft. J. W. Mavity, Wellington, engr. Noted Aug. 3.

**N. D., Fargo**—Aug. 25, by Cass Co., gravel surfacing 18 mi. Red Trail Highway, from Mapleton westerly. $30,000. W. R. Tucker, co. aud.

**Wyoming**—Aug. 24, by State Hy. Dept., Cheyenne, grading, surfacing and building culverts on 4.4 mi. Project 27-B, Newcastle to Four Corners, Weston Co., $61,000; 10 mi. Project 37-B, Ft. Laramie to Lingle, Goshen Co., $90,108; 3.2 mi. Worland to Tensleep, Washakie Co., $31,127; 8.8 mi. from Crowheart northwest, Fremont Co., $45,128; 8 mi. from Powder River west, Natrona Co., $41,132; 3.1 mi. from Moorcroft to Carlisle, Crook Co., $47,133; 3.1 mi. from Horsecreek north, Laramie Co., $27,135; 12.2 mi. from Ft. Bridge to Dog Springs, Uinta Co., $50,136; 8.2 mi. from Kemmerer north, Lincoln Co., $50,000; 3.8 mi. Projects 131 and 52, Niobrara and Fremont Counties, $33,000; grading, surfacing and culverts on 3.8 mi. Project 17, 3.3 mi. Project 27-A, and 2.5 mi. Project 25 also concrete bridge on Project 16, $38,000; surfacing 8 mi. Project 85, from Casper west, Natrona Co., $33,000. S. E. Sevison, ch. engr.

**Tex., Coleman**—Aug. 23, by L. G. Mathews, judge Coleman Co., grading, gravel surfacing, etc., 17.72 mi. State Highway 7, Federal Aid Project 194, incl., 31.2 acres clearing, 90,312 cu.yd. borrow, 41,256 cu.yd. roadway excav., 2,865.6 cu.yd. concrete, 315,583 lb. reinforcing and 83,270 lb. structural steel, 38,880 cu.yd. shipped gravel surfacing furnished by county. $232,440. W. E. Dickerson, co. engr.

**Tex., Coleman**—Aug. 24, by L. G. Mathews, judge, Coleman Co., surfacing, etc., 10.58 mi. State Highway 7-A, Federal Aid Project 303, 16, 18 and 30 ft. $87,477. W. E. Dickerson, co. engr. Noted July 13.

**Nevada**—Aug. 23 by State Hy. Comn., Carson City, grading 3.76 mi. Route 9, Sect. A, Washoe Co., 22,000 cu.yd. excav., 105 cu.yd. Class A and 30 cu.yd. Class B concrete, etc.; grading and asphalt surfacing incl. seal coat 15.57 mi. Reno-Purdy Rd., Route 9, Sect. A, Washoe Co., 15.5 mi. grading, 109,600 sq.yd. asphalt macadam, 109,600 sq.yd. seal coat, etc.; grading, surfacing and building culverts on 5.4 mi. Lincoln Highway from Grimes to Salt Wells, Churchill Co., 15 ft., 37,000 cu.yd. excav., 5.4 mi. subgrade and shoulders, 25 cu.yd. Class B concrete, 7,200 cu.yd. screen and load, 14,000 yd. mi. haul and 7,200 cu.yd. spread gravel, etc.; 3.7 mi. Reno-Lawtons Rd., Washoe Co., 37,000 cu.yd. excav., 285 cu.yd. Class A and 50 cu.yd. Class B concrete, 3.7 mi. subgrade and shoulders, 3,980 cu.yd. screen and load, 3,980 yd. mi. haul and 17,400 sq.yd. spread and compact selected material, etc.; 8.52 mi. from west county line to Battle Mountain, Route 1, Sect. 1-A, Lander Co., 16,200 cu.yd. excav., 30 cu.yd. Class A and 25 cu.yd. Class B concrete, 8.52 mi. subgrade and shoulders, 9,600 cu.yd. screen and load, 44,200 yd. mi. haul and 9,600 cu.yd. spread gravel. G. W. Borden, ch. engr.

**Cal., Crescent City**—Sept. 11, by City Trustees, improving various streets, 23,900 cu.yd. grading excav., 316,300 sq.ft. grading surface, 316,300 sq. ft. asphaltic macadam pavement, 168,418 sq.ft. asphaltic macadam pavement to be rebuilt, etc. C. C. Kennedy, Call Bldg., San Francisco, engr. Noted Aug. 1.

**Cal., Sacramento**—Aug. 31, by council, curbing, guttering, paving and laying sewers in Riverside Blvd., 15,662 lin.ft. concrete curb and gutter, 220 lin.ft. concrete curb, 963 lin.ft. curb wall, 10 concrete manholes to be reconstructed, 4,341 lin.ft. 8-22 in. vitr. pipe sewer, 318,476 sq.ft. 5½ in. pavement, 8,830 sq.ft. 6 in. pavement. A. Givan, city engr.

**Cal., San Francisco**—Aug. 23, by Bd. Pub. Wks., paving 327 ft. Ocean Beach Esplanade, Sect. D, rein.-con. M. M. O'Shaughnessy, city engr.

## BIDS RECEIVED

**N. Y., New York**—Park Bd., Dept. of Parks, Municipal Bldg., opened bids Aug. 10, paving walks in Madison Square Park, asphalt mastic, from Sicilian Asphalt Paving Co., 41 Park Row, $25,889; Interboro Asphalt Co., 2306 Creston Ave., $27,058; Asphalt Constr. Co., 208 Bway., $38,350.

**N. Y., St. George**—J. A. Lynch, pres. Richmond Boro, opened bids Aug. 8, reconstructing with concrete pavement roadway Richmond Turnpike from Bulls Head to Linoleumville factory, from E. Galaway, 676 9th Ave., New York, $108,201; Brooklyn Manhattan Contg. Co., 26 Court St., Brooklyn, $120,926; J. Johnson Sons, 455 Bway., West New Brighton, Staten Island, $124,435. Noted Aug. 3.

**Virginia**—State Hy. Comn., Richmond, grading, paving, etc., 4.07 mi. road between Donkey and Pound Gap, Virginia Project S-138, Wise Co., 16 ft., from Jones & Combson, Bristol, $173,859; Coddell-Byars Constr. Co., Winchester, $179,655; Roberts Constr. Co., Pulaski, $189,706.

**Alabama**—W. S. Keller, state highway engr., Montgomery, opened bids July 25, grading and gravel surfacing 18.754 mi. road from Guin to Walker Co. line, 24 ft. and 18 ft. surface, Marion Co., from Smith Co., 30 3rd Ave. W., Birmingham, $148,651; Lamb & McLemore, Eutaw, $155,129; J. M. Gray, Jasper, $155,792. Noted July 6.

**Louisiana**—State Hy. Dept., Redmond Bldg., Baton Rouge, gravel surfacing 11.21 mi. Sorrento-St. Amant, Walker, Brittany and Asa Highways, from A. E. Perry, Colfax, $36,622; Newell Constr. Co., $37,947; Pickett & Hollier, Opelousas, $39,228.

**Ohio**—Dept. Highways and Pub. Wks., Columbus, opened bids Aug. 11, grading, bridging and paving roads with (a) bituminous macadam, asphalt, oil, (b) bituminous macadam, tar, (c) brick, (d) plain concrete, (e) rein.-con., (f) bituminous macadam, asphalt, lake, (g) Kentucky rock asphalt, (h) bituminous concrete, oil, in following counties:

Allen Co., Sect. "A" Delphos-Kalida Rd., 0.66 mi., from G. B. Walther, 504 Opera House Blk., Lima, (a) $12,247 (b) $12,247; Central Paving Co., Hamilton, (a) $13,713 (b) $13,713; E. L. Reeb, Lima, (a) $14,044 (b) $14,044.

Ashland Co., Sect. "Loundonville" Columbus-Wooster Rd., 0.208 mi., from G. B. Herring & Son, Mansfield, (c) $16,100.

Franklin Co., Sect. "B" Columbus-Wooster Rd., 4.113 mi., from R. H. Shafer, Chamber of Commerce Bldg., Columbus, (c) $102,654; H. N. Snyder Co., Columbus, (c) $108,487; J. Wroe, Dayton, (c) $108,534.

### Streets and Roads (Continued)

Gallia Co., Sect. "A-1" Gallipolis-Crown City Rd., 0.86 mi., from Miller Bros., Gallipolis, (d) $31,909.

Guernsey Co., Sect. "F-Liberty" Cambridge-Newcomerstown Rd., 1.672 mi., from C. Bird, Springfield, (e) $51,406.

Guernsey Co., Sect. "G-1" Cambridge-Newcomerstown Rd., 2.036 mi., from C. Bird, Springfield, (e) $64,281.

Jefferson Co., Sect. "K-1" Ohio River Rd., 2.157 mi., from Brown & Allen, Ellsworth, (c) $109,090; B. C. Stringer Co., Rayland, (c) $111,264.

Meigs Co., Sect. "L" Pomeroy-Athens Rd., 2.845 mi., from S. A. Palmer, Marietta, (b) $76,692 (e) $75,495; Ebersbach Constr. Co., Pomeroy, (b) $76,542 (e) $78,456; R. H. Shafer, Chamber of Commerce Bldg., Columbus, (a) $76,422 (e) $78,458; E. L. Reeb, Lima, (a) $75,881 (b) $75,881.

Morrow Co., Sect. "J" Marion-Galion Rd., 2.233 mi., from Marifield & Uncapher, Marion, (a) $67,066 (b) $68,705 (f) $71,547; Malloy & Seckel, Marion, (a) $68,705 (b) $70,600; E. L. Reeb, Lima, (a) $69,670 (b) $69,670.

Morrow Co., Sect. "L" Mt. Gilead-Mansfield Rd., 6.322 mi., from C. W. Conley, Columbus, (g) $196,324; Smith Constr. Co., Youngstown, (h) $197,480.

Scioto Co., Sect. "R-2-A" Ohio-River Rd., 3.139 mi., from H. N. Snyder, Columbus, (c) $129,018.

Washington Co., Sect. "K-2" Marietta-Caldwell Rd., 4.88 mi., from S. A. Palmer, Marietta, (e) $146,926; Gaty Constr. Co., Central Natl. Bank Bldg., Columbus, (e) $148,432; Seiple-Wolfe Constr. Co., Youngstown, (e) $149,981.

Seneca Co., Sect. "A-1" Columbus Rd., 0.69 mi., constructing concrete curb, from C. M. Gray, Waterville, $2,625; R. M. Myers, Attica, $2,698.

Franklin Co., Sect. "B" Columbus-Wooster Rd., 4.113 mi., building waterbound macadam base, from R. H. Shafer, Chamber of Commerce Bldg., Columbus, $69,587; H. N. Snyder, Columbus, $69,587; J. Wroe, Dayton, $69,587.

Medina Co., Sect. "P" Ashland-Medina Rd., bridges and culverts, from E. L. Breuggeman, Akron, $6,545; Lodi Concrete Co., Lodi, $6,836.

**Missouri**—State Hy. Dept. at div. office, Albany, opened bids July 5, 2.603 mi. road, 24 ft., through Albany, State Aid Project 20.169, Gentry Co., (1) 31,696 cu.yd. earth excav., (2) 277.1 cu.yd. Class B concrete, (3) 36.2 cu.yd. Class C concrete, (4) 30,381 lb. reinforcing, from H. Washam, Jacksonville, (1) $0.38, (2) $23, (3) $23, (4) $0.06, total $26,411; Land Constr. Co., Ballinger Bldg., St. Joseph, (1) $0.46, (2) $26, (3) $26, (4) $0.06, total $30,819.

**Missouri**—State Hy. Dept. at div. office Bloomfield, opened bids July 15, 14.841 mi. road from Advance northeast and south, Federal Aid Project 187, Stoddard Co., (1 93,969 cu.yd. earth excav., (2) 36,078 cu.yd. borrow, (3) 777.5 cu.yd. Class B concrete masonry, (4) 52.8 cu.yd. Class C concrete, (5) 66,707 lb. reinforcing, from Thomas & McDaniel, Wapella, Ia., (1) $0.2875, (2) $0.2875, (3) $20, (4) $25, (5) $0.05, total $91,254; Service Constr. Co., Poplar Bluff, (1) $0.25, (2) $0.25, (3) $18, (4) $19, (5) $0.05, total 91,059; Little & Dean, Paris, Tenn., (1) $0.35, (2) $0.25, (3) $19, (4) $19, (5) $0.045, total $99,190. Noted July 27.

**Missouri**—State Hy. Dept. at div. office Carthage, opened bids July 13, 1.393 mi. road from Carthage to Springfield, Federal Aid Project 168A, Jasper Co., (1) 2,354 cu.yd. earth excav. (2) 3,740 cu.yd. borrow; (3) 100 cu.yd. overhaul per 100 ft. (4) 14,715 sq.yd. one course concrete pavement, (5) 14,715 sq.yd. one course concrete pavement (6) 88.6 cu.yd. Class B concrete masonry (7) 30.6 cu.yd. Class C concrete masonry (8) 5,986 lb. reinforcing, from Carterville Concrete Co., Carterville, (1) $0.50 (2) $0.40 (3) $0.04 (4) $2.12 (5) $2 (6) $16 (7) $15 (8) $0.05, total $34,913; Baker & Koontz, Carthage, (1) $1 (2) $0.50 (3) $0.03 (4) $2.11 (5) $2.06 (6) $21 (7) $19 (8) $0.035, total $37,443; Bardo Constr. Co., Carthage, (1) $0.65 (2) $0.75 (3) $0.03 (4) $2.225 (5) $2.22 (6) $20 (7) $20 (8) $0.055, total $40,314.

**Missouri**—State Hy. Dept. at div. office Lebanon, opened bids July 5, 5.075 mi. road from Springfield to St. Louis, Federal Aid Project 89B, 24 ft., Laclede Co., (a) 13,243 cu.yd. earth excav., (b) 10,199 cu.yd. borrow, (c) 35,971 sq.yd. specification C gravel pavement, etc., from Case & Killian, Harshfield, (a) $0,40 per cu.yd. (b) $0.40 (c) $0.45 total, $31,259, G. Schneider, Oakland, (a) $0.40 (b) $0.40 (c) $0.60, $37,838. Navaculite Constr. Co., Marion, Ill., (a) $0.40 (b) $0.40 (c) $0.60, $36,947; 4.788 mi. road east and west of Lebanon, State Aid Project 20.179, 24 ft., Laclede Co., (a) 24,884 cu.yd. earth excav., (b) $1,217 cu.yd. rock excav., (c) 10,515 cu.yd. brrow, etc., from Davis Constr. Co., Imboden, Ark., (a) $0.35 (b) $1.75 (c) $0.30 total $19,778, G. Schneider, Oakland, (a) $0.35 (b) $2 (c) $0.33, $20,709, J. W. and M. A. Holman, Lebanon, (a) $0.40 (b) $2 (c) $0.40, $22,946.

**Missouri**—State Hy. Dept. at div. office Lexington, opened bids July 25, 4.694 mi. road from Jackson Co. line to Blackburn, 24 ft., State Aid Project 20.164, Lafayette Co., from E. Jucksch, Oswego, Kan., $21,898; H. C. Botsford, 1212 South Bway., Leavenworth, Kan., $22,054; Diemer Williamson Constr. Co., Brookfield, $23,787. Noted July 20.

**Missouri**—State Hy. Dept. at div. office, Poplar Bluff, opened bids June 24, 8.435 mi. from Poplar Bluff to Arkansas, Federal Aid Project 58C, 24 ft., incl. 3 bridges, Butler Co., (a) 11,685 cu.yd. earth excav. (b) 494 cu.yd. borrow (c) 59,618 sq.yd. specification C gravel pavement, etc., from C. L. Rogers, Franklin, Neb., (a) $0.27 (b) $0.27 (c) $0.30, total $50,074, Little & Dean, Paris, Tenn., (a) $0.25 (b) $0.25 (c) $0.70, $69,704, L. A. Luck, Imboden, Ark., (a) $0.34 (b) $0.29 (c) $0.65, $71,489; 7.366 mi. road from Poplar Bluff southwest, Federal Aid Project 58A, 24 ft., Butler Co., (a) 32,170 cu.yd. earth excav. (b) 496 cu.yd. borrow (c) 52,727 sq.yd. specification C gravel pavement, etc., from Little & Dean, Paris, Tenn., (a) $0.35 (b) $0.35 (c) $0.25, total, $31,922, M. E. Gillioz, Monett, (a) $0.35 (b) $0.35 (c) $0.35, $38,331, Service Constr. Co., Poplar Bluff, (a) $0.35 (b) $0.35 (c) $0.38, $39,365.

**Wash., Bellingham**—C. H. Purcell, dist. forester, Portland, opened bids July 21, grading and building 9 mi. Shuksan-Austin Pass, Whatcom Co., (a) log culverts with timber trusses, (b) log culverts with framed trestle, (c) concrete pipe with timber trusses, (d) concrete pipe with framed trestle, from Dunning & Burnett, Bellingham, (a) $169,061, (b) $146,776, (c) $184,761, (d) $162,476; Siems & Carlson, Spokane, (a) $187,553, (b) $168,168, (c) $187,105, (d) $168,020; M. O'Reilly, Bellingham, (a) $204,718, (b) $181,552, (c) $202,653, (d) $179,488.

**California**—State Hy. Comn., Sacramento, grading and paving 10.86 mi. highway between Colusa and Long Bridge, Colusa and Sutter Counties, (1) 40,600 cu.yd. excav. without classification, (2) 5,000 cu.yd. gravel or broken stone in sub-base, (3) 16,550 cu.yd. concrete pavement, (4) 55 cu.yd. Class A Portland cement concrete (culverts and monuments), etc., (a) with corrugated metal pipe, (b) with rein.-con. pipe, from Bonnell, Savage & Fenn, Tacoma, Wash., (1) $0.50 per cu.yd., (2) $1.80 (3) $4.82 (4) $18, total with (a) $113, 765 with (b) $113,973, Frederickson & Shannon, Cory Bldg., Fresno, (1) $0.5625, (2) $1.90 (3) $5.45, (4) $21, total with (a) $128,158, with (b) $127,950, Galbraith & Janes, Napa, (1) $0.83 (2) $1.50 (3) $5.50 (4) $20, total with (a) $137,185, with (b) $137,519; grading 11.66 mi. road from Fish Springs School to southeast corner Sect. 33 T 8 S. R. 33 E. M. D. B. & M. Inyo Co., (1) 75,000 cu.yd. excav. without classification, (2) 270 cu.yd. Class A portland cement concrete (culverts and monuments), etc., from Redmond, Page & Pond, Alameda, (1) $0.73 (2) $30, total $67,334, H. Francisco, Los Angeles, (1) $075 (2) $28, total $67,812, L. Summers, Bishop, (1) $0.78 (2) $30.50, total $71,646; surfacing 0.83 mi. road from Arcola School to Borden Station, Madera Co., (1) 1,400 ton asphaltic concrete, from Federal Constr. Co., San Francisco, (1) $9.90, total $13,860, J. A. Costello, Jr., 1083 Shotwell St., San Francisco, (1) $11.50, total $16,100, Thompson Bros., Fresno, (1) $14, total $19,600; grading 6.76 mi. road from Cottonwood Creek to First Crossing Kern River, Kern Co., (1) 220,000 cu.yd. excav. without classification, (2) 370 cu.yd. Class A Portland cement concrete (culverts and monuments), (3) 4,700 cu.yd. rubble masonry (retaining walls), (4) 1,300 cu.yd. dry rubble (retaining walls), etc., from W. S. Mead, San Francisco, (1) $0.95 (2) $30 (3) $10 (4) $7.50, total $281,157, Erickson, Petterson, Grier Co., Monadnock Bldg., San Francisco, (1) $1 (2) $25 (3) $10 (4) $6, total $287,177, C. H. Hudson, Marsh-Strong Bldg., Los Angeles, (1) $1.07 (2) $24 (3) $15 (4) $7, total $326,955. Noted July 13.

**Cal., Lindsay**—Improving various streets, (1) 10,250 cu.yd. grading, (2) 507,000 sq.ft. 1½ in. warrenite on 3½ in. bituminous, (3) 46,500 ft. concrete gutter, (4) 5,110 ft. concrete curb, etc., from Clark & Henery Constr. Co., 38 South Sutter St., Stockton, (1) $1.88, (2) $0.255, (3) $0.28, (4) $0.65; Federal Constr. Co., Call Bldg., San Francisco, (1) $2.10, (2) $0.259, (3) $0.28, (4) $0.62; Valley Paving & Constr. Co., Visalia, (1) $2.30, (2) $0.26, (3) $0.29, (4) $0.69. Noted July 13.

*In July*

*We published 711 tips on new street and road construction as follows:*

| | |
|---|---|
| Proposed work | 165 |
| Bids desired | 205 |
| Bids received | 87 |
| Contracts awarded | 254 |

*Running heavy this season.*

### CONTRACTS AWARDED

**New Hampshire**—Paving 1.9 mi. State Highway, Project 149, in Londonderry, 19,900 sq.yd. concrete, 2,756 cu.yd. earth excav., 3,020 cu.yd. borrow, 1,659 cu.yd. gravel base, to Winslow & Cummings, Nashua, $61,505; 1.5 mi. State Highway, Project 152 Portsmouth and Greenland, 1,424 cu.yd. earth excav., 2,950 cu.yd. borrow, 36,900 gal. bituminous macadam, to A. D. Bridges & Sons, Inc., Hazardville, Conn., $31,012.

**N. Y., Brooklyn**—E. Riegelmann, boro. pres., Boro Hall, paving (1) Bay 32nd St., (2) Diksman St., (3) Division Pl., (4) Dumont Ave., (5) Hegeman Ave., (6) Midwood St., (7) Rutland Rd., (8) 19th Ave., (9) 85th St., (10) Porter Ave., (11) Bradford St., (12) Cooper St., (13) High St., (14) Johnson St., (15) Wyona St., (16) 7th St., (17) 17th St., grading, curbing and laying sidewalks on (18) East 2nd St., grading (19) Hinsdale St., (20) Schenectady Ave. from Crown to Montgomery Sts., also grading, curbing and flagging Empire Blvd, from Troy to Lefferts Aves. and Lefferts Ave. from Schenectady to Utica Aves., curbing and laying sidewalks on (21) Hinsdale St. from Hegeman to Lorraine Aves., curbing and paving (22) Ave. K, (23) Sunnyside Court, to Cranford Co., 52 9th St., (1) $6,393, (3) $3,217, (4) $2,271, (5) $2,453, (6) $6,887, (7) $6,887. (22) $14,464. Grimm Constr. Co., 170 McKinley Ave., (2) $3,810, Brooklyn Alcatraz Asphalt Co., 407 Hamilton Ave., (8) $13,056, (9) $13,380, (17) $21,162. T. B. Scott, 671 Halsey St., (10) $3,548, (13) $822, (18) $1,604, (21) $2,402, (23) $1,218. Sicilian Asphalt Paving Co., 41 Park Row, New York, (11) $10,180, (12) $35,341, (14) $30,586, (15) $13,296. J. D. Norton, 20 Sterling Pl., (16) $15,975, (20) $12,742. C. C. Dempsey, 516 Prospect Ave., (19) $1,195. Noted Aug. 3.

**N. Y., Elmira**—Paving 3,010 sq.yd. North Main St. from West Water to Church Sts., warrenite bitulithic, to Brayer Bros., Elmira, $15,445; 300 sq.yd. Divan Ave. from Lake to Grand Central Aves., asphalt and widening North Main St. from 1st and 2nd Sts., to Holleran Bros., Elmira, $3,653 and $1,259 respectively; 361 sq.yd. Irvine Pl. from College Ave. to Davis St., asphalt, to W. Longwell, Elmira, $4,243; East and West Miller Sts., concrete, to E. McGreevy, Elmira, $56,658; 2,659 sq.yd. North Main St. between Clinton and West 5th Sts., and 2,646 sq.yd. Baldwin St. between East 2nd and Clinton Sts., both warrenite bitulithic, to Lowman Constr. Co., Elmira, $12,624 and $12,682 respectively; sewer in Sly St., to E. Walsh, Elmira, $13,060. Noted Aug. 3.

**N. Y., Lockport**—Niagara Co. resurfacing 2 mi. Shawnee-Saunders Settlement Rd., to L. H. Gipp Constr. Co., 787 Richmond Ave., Buffalo, $46,926. Noted July 20.

**N. Y., New York**—J. Miller, pres. Manhattan Boro, Municipal Bldg., (1) widening and repaving widened portion roadway West 57th St. from 6th to 7th Aves., asphalt on concrete, (2) repaving roadway South St. and Marginal St. wharf or place on East River from Peck Slip to Montgomery St., (3) roadway of West St. and Marginal St. wharf or place on North River from Cortlandt to Duane Sts., granite block on concrete, to Asphalt Constr. Co., 208 Bway., (1) $14,817, (3) $354,311; W. J. Fitzgerald, 547 West 45th St., (2) $413,317. Noted Aug. 10.

**N. Y., New York**—J. Miller, pres. Manhattan Boro, Municipal Bldg., widening and repaving widened portion (1) Madison Ave. from 60th to 61st Sts. (2) roadway 57th St. from 5th to 6th Aves.; repaving (3) roadway 50th St. from Madison to

### Streets and Roads (Continued)

6th Aves. (4) roadway 51st St. from point 50 ft. west of westerly house line Park Ave. to 8th Ave., to J. E. Gaffney, 438 East 91st St., (1) $2,714; Asphalt Constr. Co., 208 Bway, (2) $30,480 (3) $22,480; W. J. Fitzgerald, 547 West 45th St., (4) $48,847. Noted Aug. 10.

**N. Y., Syracuse**—C. L. Cadle, state supt. Pub. Wks., Albany, for Terminal Contr. 89, paving portion Terminal site, constructing railroad and crane tracks, electrical work, etc., here, to J. H. Gallup, Union Bldg., $59,609. Noted Aug 3.

**N. J., Trenton**—Mercer Co. constructing 2.4 mi. road from Scudders Falls to Washingtons Crossing, 8 in. rein.-con., to Thompson & Glickman, Freehold, $145,421. Noted June 15.

**Pa., Phila.**—To Barber Asphalt Paving Co., Land Title Bldg., asphalt pavements on Fillmore, Mascher and Wakeling Sts. $27,012, Allegheny Ave., $25,265; Eastern Paving Co., Colonial Trust Bldg., C St. $35,021; Fish-Rutherford, Inc., Real Estate Trust Bldg., granite block pavements on 2nd St. $5,917. Noted July 20.

**Pa., Pittsburgh**—Repaving 2,900 ft. Warrington Ave., asphalt and block stone, to Booth & Flinn Ltd., Forbes St. Engrs. est. $41,000.

**Pa., Scranton**—Grading and curbing 9th St., to H. B. Sproul Constr. Co., 218 Adams St., $15,662; new sewer in 22nd Ward, to M. Stipp & Son, 1015 North Main St., $19,812; furnishing 300 ton limestone dust, to Solvay Process Co., Milton Ave., Syracuse, N. Y., $7.10 per ton.

**W. Va., Wheeling**—Comrs. Ohio Co. surfacing ⅜ mi. Glenns Run Rd., to Coss & Otto, Wheeling, $15,600. Noted July 13.

**North Carolina**—State Hy. Dept., Raleigh, grading, rein.-con. bridges and culverts, and paving with 2 in. asphaltic concrete on 5 in. cement concrete 14.83 mi. State Project 236, Johnston Co., to R. G. Lassiter & Co., Citizens Bank Bldg., Raleigh, $432,110, 6.21 mi. State Project 494, Warren Co., to Clifford Eng. Co., Montgomery, W. Va., $189,209, 5.91 mi. State Project 342, Cumberland Co., to A. J. Wardrep, Holston Bank Bldg., Knoxville, Tenn., $161,275; clearing and grading 8.68 mi. State Project 963, Macon Co., to Costello Bros., Knoxville, Tenn., $85,208, 10.36 mi. State Project 952 A. to Brooks-Callaway Co., Forsyth Bldg., Atlanta, Ga., $114,435; grading and rein.-con. paving 7.78 mi. State Project 535, Guilford Co., and 1.63 mi. State Project 764, Surry Co., to Leaksville Lumber Co., Leaksville, $235,779 and $45,962 respectively; grading and concrete paving 8.79 mi. State Project 484, Wake Co., to R. P. Ashby, Tucker Bldg., Raleigh, $257,117; clearing, grading and topsoiling 18.97 mi. State Project 569, Moore Co., to Mayfield Constr. Co., Denmark, S. C., $61,929; grading, gravel surfacing and waterbound macadam paving 7.75 mi. State Project 702 A, Alleghany Co., to O'Brien Constr. Co., Birmingham, Ala., $130,207; grading and penetration macadam paving 8.17 mi. State Project 640, Iredell Co., and grading and bitulithic macadam paving 9.28 mi. State Project 602, Alexander Co., to W. E. Graham, Mt. Ulla, $165,446 and $172,118 respectively; clearing, grading, rein.-con. bridges and culverts and topsoiling 9.73 mi. State Project 132, Gates Co., to J. A. Marrow, Clarksville, Va., $58,110; grading, rein.-con. bridges and culverts and concrete paving 7.22 mi. State Project 173, Perquimans and Pasquotank Counties, to Williams & Williams, South Mills, $217,677. Noted Aug. 3.

**Fla., West Palm Beach**—Bd. Comrs. Palm Beach Co., paving with penetration macadam, oil surface, 11 mi. Palm City Loop, and 6 mi. Farm Rd. west from Hobe Sound and east to Jupiter Island bridge, to Maule Paving Co., West Palm Beach, $68,994 and $24,074 respectively; 6.8 mi. Ocean Blvd. from Delray to Boca Rotone, to F. N. Brown, West Palm Beach, $45,000. Noted July 27.

**Fla., West Palm Beach**—Palm Beach Co., paving Stuart Annie Rd., penetration macadam, oil surface, to Maule Paving Co., West Palm Beach, $87,860.

**Alabama**—State Hy. Dept., Montgomery, grading and gravel surfacing 20.488 mi. road from Tuskegee to Montgomery Co. line, 24 ft. roadway, 18 ft. surface, Macon Co., to Vaughn-Davis Constr. Co., Montgomery, $157,898; 14.617 mi. road from Athens to Elk River at Lauderdale Co. line, 24 ft. roadway, 18 ft. surface, Limestone Co., to E. L. Batson, Birmingham, $157,056; 3.48 mi. road from Calhoun Co. line to Heflin, 22 ft. roadway, 14 ft. surface, Cleburne Co., to Stanley & Singer Constr. Co., Lafayette, $25,507. Noted July 27.

**Louisiana**—State Hy. Dept., Redmond Bldg., Baton Rouge, gravel surfacing 17.08 mi. Sects. A and B, Hammond-Baton Rouge Highway, Federal Aid Project 79, to R. A. Laustalot, Hammond, $138,227. Noted July 13.

**Louisiana**—State Hy. Dept., Redmond Bldg., Baton Rouge, hardsurfacing 6.83 mi. road from Raceland-Houma Highway to Beatiesville, also gravel surfacing 3.3 mi. east bank highway, 5.36 mi. west bank highway and 5.7 mi. Vacherie Highway, 17,360 cu.yd. washed gravel, to H. M. Weber, Thibodaux, $30,000 and $29,970 respectively; gravel surfacing 4.98 mi. Project 354, Opelousas-Maarksville Highway, Sect. B, 8.88 mi. Opelousas-Lafayette Highway, Sect. A, St. Landry Parish, incl. 8,940 cu. yd. washed gravel and 17,363 cu.yd. sand clay gravel, to Pickett & Hollier, Opelousas, $81,394.

**La., Hammond**—Paving 18,000 sq.yd. various streets, Kentucky rock asphalt on 5 in. concrete, to S. A. Gano, Maison Blanche Bldg., New Orleans, $63,823.

**Ohio**—Dept. Highways and Pub. Wks. awarded contracts grading, bridging and paving roads in following counties:

Allen Co., Sect. "Elida" Lima-Delphos Rd., 0.494 mi., rein.-con., to F. A. Frobase & Co., 628 West North St., Lima, $15,131.

Allen Co., Sect. "F" Lima-Delphos Rd., 4.178 mi., bituminous macadam tar, N. B. Putnam, Van Wert, $89,574.

Fulton Co., Sects., "C" and "Wauseon" Wauseon-Napoleon Rd., 0.998 mi., rein.-con., LaBoiteaux & Hayes, Toledo, $28,903.

Fulton Co., Sect. "L-1" Archbold-Fayette Rd., 1.018 mi., asphalt macadam tar, LaBoiteaux & Hayes, Toledo, $18,036.

Harrison Co., Sects. "1-2" and "K," Bridgeport-Cadiz Rd., 5.165 mi., bituminous macadam asphalt, Curry & Hayes, Eaton $153,804.

Jefferson Co., Sect. "A" Mingo-Smithfield Rd., 3.714 mi., bituminous macadam tar, H. F. Dougherty, Steubenville, $100,344.

Jefferson Co., Sect., "New Alexandria" Mingo-Smithfield Rd., 0.227 mi., tar macadam, H. F. Dougherty, Steubenville, $7,698.

Morgan Co., Sect., "C" McConnelsville-Zanesville Rd., 2.1 mi., bituminous macadam asphalt, Wilson Contg. Co., Newark, $56,233.

Muskingum Co., Sect., "F-2" Zanesville-New Lexington Rd., 1.648 mi. brick, Adams Bros. Constr. Co., Zanesville, $82,426.

Putnam Co., Sect "N" Lima-Ottawa Rd., 2.718 mi., Kentucky rock asphalt, Acton Bros., Vaughnsville, $59,969.

Seneca Co., Sect. "Attica" Columbus-Sandusky Rd., 0.35 mi., brick, R. M. Myers, Attica, $29,349.

Shelby Co., Sect. "Anna" Sidney-Wapakoneta Rd., 0.516 mi., rein.-con., J. Franz, Sidney, $17,312.

Shelby Co., Sect. "Botkins" Sidney-Wapakoneta Rd., 0.507 mi., rein.-con., Roth & Schafer, Botkins, $13,974.

Tuscarawas Co., Sect. "P-2" Newcomerstown-Urichsville Rd., 1.338 mi., monolithic brick, W. M. Brode Co., Newcomerstown, $53,483. Noted Aug. 10.

**O., Akron**—Summit Co., grading and paving to A. F. Wible, 859 Chalker St., 6,918 ft. Cuyahoga Falls-Hudson Rd. 34-B, 16 ft., 15,000 cu.yd. earth excav. $0.48, 12,300 sq.yd. 3 in. bituminous macadam top $0.93, 12,300 sq.yd. 7 in. waterbound macadam foundation course $1, total $32,885, engrs. est. $34,350; to Fairlawn Heights Co., 41 East Mill St., 5 mi. streets in Fairlawn Heights, 16 ft., 1,650 lin.ft. stone curb $1.25, 10,416 cu.yd. earth excav. $0.60, 110 cu.yd. rock excav. $3.50, 35,511 sq.yd. 6 and 3 in. bituminous macadam $2.20, engrs. est. $108,550; to T. E. McShaffrey Constr. Co., 171 South Forge St., 8,834 ft. Brittain-Massillon Rd. 49 D, 17 ft. 4 in., 17,700 lin.ft. 8 x 8 in. concrete curb $0.20, 15,500 cu.yd. earth excav. $0.60, 15,725 sq.yd. 6 in. concrete base $1.45, 15,725 sq.yd. 2 in. bituminous concrete $1.45, total $59,728, engrs. est. $63,770, also 3.046 mi. Krumroy Myersville Rd. 130, Sects. A and B, 16 ft., 24,500 cu.yd. earth excav. $0.55, 26,300 sq.yd. 1½ in. bituminous concrete $1.25, 26,300 sq.yd. 7 in. waterbound macadam foundation course $1.10, total $77,643, engrs. est. $77,900. Noted July 27.

**O., Akron**—M. P. Tucker, dir. Pub. Serv., grading and paving, etc., 3,900 ft. Dayton St., to S. F. Baker, R. D. 24, South Akron, $16,043, engrs. est. $17,364; 3,043 ft. Orlando Ave., 24 ft. pavement, 5 ft. walks, to T. E. McShaffrey Constr. Co., 171 South Forge St., $48,650, engrs. est. $48,640; 5,255 ft. Roslyn Ave., 24 ft. and 1,000 ft. Carroll St., 26 ft., to Columbus Asphalt Paving Co., Buckeye Bldg., $85,910, engrs. est. $82,583 and $16,144, engrs. est. $16,428 respectively; 11,300 ft. Peckham, Orrin, Bye, Stadelman, Crestview and Greenwood Sts., 5 ft. walks, to M. Kalain, 573 Wilson St., $45,474, engrs. est. $44,099; 1,275 ft. Commins St., 24 ft., to McAlonan Bros., 506 Woodland Ave., $16,178, engrs. est. $17,275. Noted July 20.

**O., Centerburg**—Grading, curbing and paving 9,500 sq.yd. Preston, Church, Landrum and Valley Sts., brick, to H. Strodbeck, Ashland, $37,500. Noted July 20.

**O., Cleveland**—Cuyahoga Co. paving Bassett Rd., to Baldwin Bros., 4500 Euclid Ave., $41,251; Bean Rd. 2, to Freshwater Constr. Co., Natl. Bldg., $52,171. Noted July 20.

**O., Cleveland**—Paving East 107th St., to Bentley Bros., 1836 Euclid Ave., $13,322; East 113th St., to Garland Bros., Pavers Exch., Society for Savings Bldg., $12,191. Noted July 27.

**O., East Cleveland** (Cleveland P. O.)—Paving 2 streets, brick, to Gould & Maybach, 823 East 140th St., Cleveland, $20,629; 2 streets, asphaltic concrete, to Rieley Bros., The Arcade, Cleveland, $16,939; 1 street, concrete, to D. Minenella, 2244 Murray Hill Rd., Cleveland, $3,275.

**O., Euclid**—Paving Seabrook, Parkview, Glenside, Eastbrook, Wondergrove, Westbrook, Gilchrist and Lakemont Sts., 19,750 sq.yd. asphalt, 161,600 sq.yd concrete base, 11,360 lin.ft. stone curbing, to River Constr. Co., Schofield Bldg., Cleveland, $80,388. Noted July 27.

**O., Fredericktown**—Grading and paving 1,100 sq.yd. Mansfield Ave., Main and Railroad Sts., brick, to H. Strodbeck, Ashland, $46,000. Noted July 20.

**O., Shaker Heights** (Cleveland P. O.)—Paving East 156th and East 157th Sts., asphalt, to Cleveland Trinidad Paving Co., The Arcade, Cleveland, $41,092.

**Ind., Indianapolis**—Marion Co., paving 16,200 ft. Claypool Rd., 16 ft., 28,782 sq.yd concrete on concrete, to C. O'Hair, 901 North East St., $75,550. Engrs. est. $125,000. Noted Aug. 19.

**Michigan**—State Hy. Dept., Lansing, grading and surfacing 2.064 mi. Assessment Dist. Rd. 235, Saginaw Co., to J. W. Ederer & Co., Saginaw, $33,215.

**Michigan**—State Hy. Dept., Lansing, grading and surfacing 2.767 mi. State Trunk Line Rd. 59-1, Sect. B, Macomb Co., to Meredith & McVaugh, 220 Horton Ave., Detroit, incl. 9,660 cu.yd. excav. $0.50, 44.9 cu.yd. 1:2:4 and 27.3 cu.yd. 1:2½:5 concrete $12, 29,220 sq.yd. rein.-con. pavement $1.40, total $47,381 plus cement $25,168.

**Michigan**—State Hy. Dept., Lansing, grading and surfacing 204 mi State Trunk Line Rd. 50-2, Oakland Co., to Meredith & McVaugh, 220 Horton Ave., Detroit, incl. 107.6 sta. grading, 21,525 sq.yd. rein.-con., $32,978, plus cement $18,646.

**Wis., Fond du Lac**—Paving 12th, Howard, Oak, South, Grant, Merrill and Rose Sts., 20-25 ft., asphaltic concrete, concrete curb and gutter, to J. Rasmussen & Sons, 7th St., Oshkosh, $85,393. Engrs. est. $80,000.

**Ia., Merrill**—For 24,000 sq.yd. bitulithic rein.-con. pavement and 2,400 lin.ft. 10-18 in. vitr. clay sewers, to M. L. Flinn Paving Co., Grain Exch. Bldg., Sioux City, $74,800. Noted July 27.

**Ia., Waukon**—Asphaultic concrete paving 40,350 sq.yd. various streets, incl. 28,350 lin.ft. concrete curb, to T. Carey & Sons, East 6th and Market Sts., Des Moines, $2.41 per sq.yd. for paving, $0.88 per lin.ft. for curb, total 134,098. Noted July 20.

**Minn., Faribault**—Rice Co., Job 2109, State Rd. 16, 44,791 cu.yd., gravel surfacing, 58,080 lin.ft. surfacing and compacting, to J. A. Dunkel, Webster City, Ia., $11,000. Noted June 22.

**Minn., Madelia**—Paving about 27,000 sq. yd. rein.-con. pavement, concrete curb, storm water inlets, etc., to Johnson, Drake & Piper, Inc., 809 1st Natl.-Soo Line Bldg., Minneapolis, $88,000.

**Minn., St. Paul**—Paving 2 mi. Hudson Rd. from Point Douglas Rd. to east city limits, gravel concrete, to Thornton Bros. Co., 304 Central Bank Bldg., $77,445. Noted Aug. 3.

**Minn., Winona**—Bd. of Park Comrs., 8,533 sq.yd. vitr. brick block paving, 7,365 lin.ft. 6 in. concrete curb, to Schruth & Welsh, 704 1st Natl.—Soo Line Bldg., Minneapolis, $1.99 per sq.yd. Noted July 20.

**Kan., Larned**—Pawnee Co. grading, bridging and sand clay surfacing 10,283 mi. Santa Fe Trail, Sects. A, B and C, Federal Aid Project 123, Sects. A and B will be done by County forces, c/o V. Stuart, $28,954 and $17,332 respectively; Sect. C, to Missouri Valley Bridge & Iron Co., 1006 Schweiter Bldg., Wichita, $7,741.

**Kan., Nickerson**—Paving 17 blocks, brick, to J. H. Shears & Sons, Hutchinson, $85,360.

**Missouri**—State Hy. Dept. at div. office Bloomfield, 4.946 mi. road from Cairo to Poplar Bluff, 24 ft., Federal Aid Project 178 A, Stoddard Co., to Allhands & Davis, Joplin, $35,350. Noted Aug. 3.

### Streets and Roads (Continued)

**Missouri**—State Hy. Dept at div. office Canton, 7.9356 mi. road from Canton northward and southward, 24 ft., Federal Aid Project 39, Lewis Co., to Gaines Bros., Fairland, Okla., $79,856. Engrs. est. $83,466; 8.3712 mi. road from Canton southward and westward, 2 ft., Federal Aid Project 38, Lewis Co., to O. J. Hanick, 4066 Lindell St., St. Louis, $85,625. Noted Aug. 3 and June 1.

**Missouri**—State Hy. Dept. at div. office Fayette, 4.811 mi. road from Fayette to Missouri River, 24 ft., State Aid Project 20.93, Howard Co., to Kirby & Raines, Fayette, $26,488. Noted Aug. 3.

**Missouri**—State Hy. Dept. at div. office Liberty, 13.07 mi. road from Liberty to Excelsior Springs, 24 ft., Federal Aid Project 25, Clay Co., 13,000 cu.yd. excav., surfacing with 2 in. asphaltic concrete on 8 in. sledged stone, 18 ft. wide, to Unit Constr. Co., Title Guaranty Bldg., St. Louis, $284,159. Engrs. est. $400,215. Noted Aug. 3.

**Missouri**—State Hy. Dept. at div. office New London, 3.8 mi. road from New London eastward and westward, 24 ft., State Aid Project 20.168, Ralls Co., to O. J. Hanick, 4066 Lindell St., St. Louis, $21,513. Noted Aug. 3.

**Missouri**—State Hy. Dept. at div. office Pineville, 4.973 mi. road from Pineville northward and southward, 24 ft., State Aid Project 20.178, McDonald Co., to J. P. Wolfenbarger, Neosho, $26,036. Noted Aug. 3.

**N. D., Fargo**—W. R. Tucker, aud. Cass Co., grading 18 mi. Federal Aid Project 144, east and west through Casselton, grading to W. H. Noel, Jamestown, $27,374, culverts, etc. to J. A. Jardine, Fargo, $5,976. Noted July 20.

**Tex., Clarksville**—Red River Co., grading and gravel surfacing 5.39 mi. State Highway 35, 16 ft., to J. McCarthy, Marshall, $6,550 (work only, not incl. materials). County to furnish 8,325 cu.yd. gravel, $21,062. Engrs. est. $30,373. Noted July 6.

**Tex., Karnes City**—Karnes Co., surfacing with 1 in. bituminous topping of cold Uvalde rock asphalt 14.54 mi. State Highway 9, through Kenedy Rd. Dist. 4, 16 ft., to R. W. Coglazier, 910 Austin St., San Antonio, $88,109, engrs. est. $96,920 incl. 10% for engineering and contingencies; 14.54 mi. State Highway 9 through Rd. Dist. 4, to Wear & Thomas, Rogers, $191,141, engrs. est. $210,255 incl. 10% for engineering and contingencies. Noted July 27.

**Tex., Pecos**—Reeves Co. grading, surfacing, etc. 11.32 mi. State Highway 27, incl. 15,935 cu.yd. borrow, 512 cu.yd. concrete, 19,277 lb. reinforcing, 18,942 cu.yd. gravel and 3,573 cu.yd. caliche surfacing, to Lee-Moor Contg. Co., Two Republics Bldg., El Paso, $41,289. Engrs. est. $45,418 incl. 10% for engineering and contingencies.

**Tex., Tyler**—Smith Co. grading, surfacing, etc. 14.73 mi. Highway 37, Federal Aid Project 284, 16 ft., to Smith Co., care of W. R. Castle, chn. Smith Co. Highway Comn., Tyler, $229,094. Noted July 13.

**Cal., Clovis**—Grading, curbing, guttering and paving De Witt and Pollasky Aves., 4th, 5th and 10th Sts., to Clark & Henery Constr. Co., 38 South Sutter St., Stockton, $64,401. Noted Aug. 10.

**Quebec**—J. L. Perron, minister Dept. Rds., Quebec, paving St. Hyacinthe-Rougemont Highway, St. Damask Sect., and Notre Dame-St. Hyacinthe Sect., to T. E. Rousseau, 229 St. Joseph St., Quebec, $83,646 and $60,727 respectively; Chemin de Grange Cote, to H. L. St. George, 127 Stanley St., Montreal, $17,576; Grondines Valcartier Sect., to Laganiere & Houde, Quebec, $16,999; highway from Terrebonne to St. Therese and St. Michael Sect. to Terminals Constr. Co., Halifax, N. S., $29,290 and $17,766 respectively; also other contracts amounting to $48,700, to Terminals Constr. Co., Halifax, N. S.

**Que., Montreal**—Will pave Wellington St. from McGill St. to Tait Race Bridge, Verdun, incl. 9,374 ft. asphalt, 65 ft., by day labor. $278,500.

**Ontario** — Provincial Highway Dept., Parliament Bldgs., Toronto, 2 mi. concrete highway, from Talbotville southerly, Southwold Twp., to Lumsden Eng. & Transport Co., 6 Adelaide St. E., $65,000.

**Ont., Chatham**—Concrete pavements on Lorne Ave and St. George St., to Weston Constr. Co., Chatham, William and Water Sts., to G. Conibear, 81 Delaware Ave. Engrs. est. $34,000. Noted Aug. 10.

**Ont., Merriton**—Paving 4,000 lin.ft. Main St., 12,000 sq.yd. concrete, to Reid & Somers Ltd., 40 Adelaide St. E. $32,000.

**Ont., St. Catharines**—Dept. Provincial Highways, Parliament Bldg., Toronto, 1½ mi. concrete road from here to Homer, 30 ft., to Frid Constr. Co. Ltd., Clyde Bldg., Hamilton. Engrs. est. $75,000.

**Ont., Toronto**—York Twp., concrete sidewalks on Dentonia Park Ave., to A. Johnson, 35 Burgess Ave., $1,400; Keene St. to D. Mackay & Co., 289 Ashdale Ave. $1,200; Mould Ave., to S. Simpson, care of F. Barber, engr., 40 Jarvis St., $1,900; Runnymede Rd., to Natl. Contg. Co., 9 Garnock Ave., $4,500; Eastdale, Lumsden, Pritchard and Walnut Aves., to Grant Contg. Co., 50 Front St. E., $3,900; Brunswick Ave. and Humewood Dr., to Canadian Constr. Co., Excelsior Life Bldg., $7,000; Avon and Orla Aves., to P. Licastro, 1,423 Dufferin St., $2,000; Strathearn Blvd., Almeada, Gordon and Kendal Aves., to Britnell Contg. Co., Baxter St., $9,500; Meagher Ave. to H. S. Walton, 60 Gamble Ave., $9,000.

**Ont., Windsor**—Paving 1½ mi. Tecumseh Rd., concrete, to Merlo, Merlo & Ray, Sandwich St., $120,000.

## Industrial Works

### PROPOSED WORK

**N. H., Manchester**—F. P. Carpenter, Mechanic St., had plans prepared by H. W. Rhodes, archt., 574 Congress St., Portland, Me., 1 story, brick and steel garage, service and repair shop, Mechanic St. $50,000.

**N. Y., Rochester**—Rochester Composite Brick Co., East Ave., plans to rebuild portion of plant destroyed by fire. $80,000. Architect not announced.

**N. Y., Rochester**—Rochester Telephone Corp., 59 Stone St., having plans prepared by J. F. Warner, archt., c/o owner, 2 story, 145x200 ft., brick and steel building, will be used for service and repair departments, garage, stockrooms and cabinet shop. $130,000.

**N. J., Trenton**—Panelyte Board Co., 119 North Montgomery St., plans factory on Whitehead Rd. $150,000.

**Pa., Carbondale**—S. D. Chandler, 82 Main St., plans to rebuild 3 story garage and salesroom, South Main St., recently destroyed by fire. $40,000. Architect not announced.

**Pa., Erie**—Erie Co. Milk Assn., Erie, plans 3 story, rein.-con., brick and steel warehouse, French St. $66,000. Architect not announced.

**Pa., Phila.**—City soon takes bids reduction plant. $500,000. Private plans. F. A. Dunlap, city engr.

**Pa., Pittsburgh**—Donaldson Transfer & Storage Co., 839 West North Ave., having plans prepared by Hunting-Davis Co., archts., Century Bldg., 6 story, 120 x 120 ft. warehouse, Ridge Ave. near Merchant Ave. $150,000.

**Pa., Pittsburgh**—U. S. Drug & Chemical Co., Pittsburgh, having plans prepared by P. R. Rossello, archt., 406 Congress Bldg., Detroit, 3 story, 100 x 140 ft. rein.-con., brick and steel factory. $200,000.

**Tenn., Erwin**—B. S. Abernethy, Lincolnton, N. C., and W. C. Heath, Charlotte, N. C., making plans textile plant, capacity 15,000 spindles. Architect not announced.

**Tenn., Nashville**—M. McKissack, archt., 331½ Cedar St., soon takes bids 4 story, publishing plant and office building, 4th and Cedar Sts., for Natl. Baptist Sunday School Bd. (Negro), Nashville, $250,000.

**O., Cleveland**—L. Bondy Harness Co., c/o C. Bondy, 730 Bway., having plans prepared by H. Nan, archt., c/o owner, 2 story, 46x110 ft., brick and steel factory and commercial building, 3333 Superior Ave. $40,000.

**O., Cleveland**—M. Marmorstein, Ulmer Bldg., had plans prepared by W. S. Ferguson Co., archts., 1900 Euclid Ave., 1 story, 40x94 ft., brick and steel garage, plain foundation, East 69th St. and Euclid Ave. $40,000.

**O., Cleveland**—Wolfe Envelope Co., 1749 East 22nd St., having plans prepared by Christian, Schwarzenberg & Gaede, archts., 1900 Euclid Ave., 1 story, about 84x130 ft., brick, steel and concrete factory addition. $50,000. N. J. Dryfoos, pres.

**O., Columbus**—Lawwell-McLeish Co., 97 North 4th St., having plans prepared 2 story, 32x187 ft., brick and concrete garage and service station, North 4th St. $40,000. Private plans.

**O., East Cleveland**—Windemere Transfer & Moving Co., 14136 Euclid Ave., plans 3 or 6 story, 65 x 145 ft., storage building, brick, steel and concrete, Euclid and Doan Aves. $150,000. Architect not selected.

**O., Warren**—General Fire Extinguisher Co., had plans prepared by G. S. Rider & Co., archts., Century Bldg., Cleveland, 4 story, 80x200 ft., brick and rein.-con. factory. $300,000.

**O., Williamsburg**—Williamsburg Furniture Co. having plans prepared 2 story factory, to replace one recently destroyed by fire. $40,000. J. F. Knight, pres.

**O., Youngstown**—Vahey Oil Co., 1028 West Rayen St., plans 2 story, 75 x 162 ft., rein.-con. and brick, garage and service station, Phelps and Front Sts. $65,000. Architect not announced.

**Mich., Kalamazoo**—City having preliminary surveys made gas plant incl. 6 rein.-con. buildings. $2,000,000 bonds will be voted on at September election. Burns & McDonnell, 400 Interstate Bldg., Kansas City, Mo., engrs.

**Mich., Kalamazoo** — Kalamazoo State Hospital, Oakland Dr., having plans prepared by L. W. Frye, archt., Ann Arbor, 2 story, 80 x 80 ft. rein.-con., brick and steel warehouse. $60,000.

**Ill., Chicago**—Ohrenstein & Hild, archts., 232 East Erie St., soon receive bids 1 story, 125 x 125 ft., rein.-con., brick and steel garage, 6747 Ridgeway Ave. $100,000. Owner's name withheld.

**Wis., Chippewa Falls**—F. A. Bigler, 14 East Central St., having plans prepared by [illegible] J. Hancock, archt., Laycock Bldg., Eau Claire, 2 story, 124x130 ft., brick and concrete garage, plain foundation, Grand Ave. $75,000.

**Wis., Milwaukee**—S. E. Tate Printing Co., 133 2nd St., having preliminary plans prepared by M. Tullgren & Sons, archts., 425 East Water St., 6 story, 60x120 ft., printing plant and office building, rein.-con. and brick, plain foundation., Bway.

**Okla., Sand Springs**—Tulsa Stove & Fdry. Co. plans 1 story addition to factory. $50,000. Architect not announced.

**Ariz., Superior**—Magma Copper Co. plans smelting plant. $500,000. Architect not announced.

**Que., Asbestos**—Johns Manville Co., Ltd., 450 St. James St., Montreal, plans plant here. $1,000,000.

**Ont., Collingwood**—J. H. Yates plans concrete and brick tannery. $100,000. Private plans.

**Ont., Niagara Falls**—Dominion Insulator Co. plans 80 x 350 ft. factory, Portage Rd. $150,000. Architect not announced.

**Ont., Saulte Ste. Marie**—Algoma Steel Corp., 503 Queen St. E., plans 1 story, brick and steel, heat treatment building. $50,000. Private plans.

**Ont., Stratford**—Dufton Woolen Mills Co. plans to rebuild plant partially destroyed by fire. Loss $80,000. Prices wanted on all materials.

**Ont., Thamesville** — D. E. Wallace, Thamesville, plans to rebuild mills recently destroyed by fire.

### BIDS DESIRED

**N. Y., Cohoes**—Sept. 6, by C. L. Cadle, supt. Pub. Wks., Albany, power house at Crescent Dam, here; adv. this issue.

**N. Y., Long Island City**—Sept. 1, by James Butler, Inc., 390 Washington St., New York, rein.-con. and steel warehouse, concrete pile foundation, Mount St. and Anable Ave., here. $1,750,000. W. Higginson, 21 Park Row, New York, archt. and engr. Noted June 8.

**Pa., Phila.**—J. J. Carroll, archt., Middle City Bank Bldg., taking bids 2 story, 140 x 215 ft. rein.-con., brick and steel garage, plain foundation, 1745-1751 North Broad St., for L. J. Faulkner, 14 North Paxton St. $100,000.

**Pa., Phila.**—Hulbert & Sax, engrs., Penfield Bldg., taking bids 4 story, 100 x 143 ft. rein.-con. and brick factory, plain foundation, Eyre and Memphis Sts., for A. J. Reach & Co., Tupil and Palmer Sts. $150,000.

**O., Cleveland**—Poe Eng. Co., archts., Peoples Bank Bldg., taking bids 1 story, 50 x 125 ft., factory and warehouse, brick and steel, 1450 Hamilton Ave. for Ingraham Waste and Supply Co., 1539 Columbus Rd. $50,000. Noted July 27.

**O., Cleveland**—G. S. Rider & Co., archts., Century Bldg., taking bids 1 story, 100 x 240 ft., brick and steel foundry, Almira Ave. and East 82nd St., for Crucible Steel Castings Co., Canal Rd. $100,000. W. H. Shepard, pres. Noted June 29.

**Ill., Chicago** — P. Gerhardt, archt., 64 West Randolph St., receiving bids 3 story, 120 x 240 ft. printing plant, La Salle St. near 26th St., for Illinois Publishing and Printing Co., Hearst Bldg., $500,000.

**Wis., Appleton**—G. R. & S. Motor Co., 738 Washington Ave., and E. A. Wettengel, archt., 578 Pierce Ave., taking bids 1 story, 32 x 100 ft. garage and repair shop, brick, rein.-con. and steel, plain foundation, Washington Ave. $40,000. Noted July 20.

**Tex., San Antonio**—Aug. 26, by State Bd. Control, Austin, power house and concrete oil storage tank at Southwest Insane Asylum, here. $110,000.

**Cal., Santa Clara**—Wolfe & Higgins, archts., Auzerais Bldg., San Jose, receiving bids 1 story newspaper plant, brick, for Santa Clara News.

## Industrial Works (Continued)

**Ont., Toronto**—James, Proctor & Redfern, engrs., 36 Toronto St., taking bids 2 story, rein.-con., brick and steel garage and auto parking station, Court St., for Court St. Auto Parking Service Co. Ltd., 14 Court St. $100,000.

### BIDS RECEIVED

**Cal., Pittsburg**—Pioneer Rubber Co., 68 Sacramento St., San Francisco, 3 rein.-con. factory buildings, here, from Cahill Bros., 110 Sutter St., San Francisco, $150,000.

**California**—See "Dams."

### CONTRACTS AWARDED

**Mass., Nantasket**—Damon Jr., Hull, 1 story, 100 x 110 ft. garage and repair shop, brick and steel, plain foundation, Atlantic Ave., to B. Weston, Allerton (Hull P. O.) Archts. est. $40,000.

**Conn., Manchester**—Orford Soap Co., Hillard St., 2 and 3 story, 73 x 150 ft. brick and concrete addition to plant, to H. P. Cummings Constr. Co., Ware, Mass. Noted June 29.

**R. I., Greenville**—Namquit Worsted Co., Bristol, 1 story, 55 x 170 ft. brick and steel weave shed, to Bowerman Bros., 230 Industrial Trust Bldg Providence. Archts. est. $40,000.

**N. Y., Brooklyn**—L. Meyer, 374 Flushing Ave., brick, steel and concrete provision plant, Wykoff Ave., to W. Kennedy Constr. Co., 215 Montague St., $100,000.

**N. Y., Brooklyn**– Towns & James, 219 Duffield St., rein.-con., brick and steel warehouse, 217 Duffield St., to Turner Constr. Co., 244 Madison Ave., New York. Archts. est. $100,000.

**N. Y., Jamestown**—Jamestown Worsted Mills, 335 Harrison St., 4 story, 70x175 ft. addition to combing and dyeing department, 122x180 ft. dye house and filter house, foundations to Raymond Concrete Pile Co., 140 Cedar St., New York; 200 ft. brick chimney to Alphons Custodis Chimney Constr. Co., 95 Nassau St., New York; general construction to Parklap, Inc., 84 Pine St., New York. Total cost, about $100,000. Work will be done under direct supervision Lockwood, Green & Co., engrs., 24 Federal St., Boston, Mass.

**N. Y., Morris Park** (Jamaica P. O.)—Long Island R. R., Pennsylvania Sta., New York, 3 story, 40x100 ft. warehouse, and 3 story, 40x80 ft. factory, both rein.-con., to Turner Constr. Co., 244 Madison Ave. New York, under supervision of L. V. Morris, ch. engr.

**N. Y., Newburgh**—W. R. Crabtree, yarn mill, brick and concrete, plain foundation, to Casper-Ranger Co., Holyoke, Mass. Archts. est. $150,000.

**N. Y., New York**—Schock Estate, 8 story, 75x100 ft., garage and service station, 503 West 56th St., to Turner Constr. Co., 244 Madison Ave.

**N. J., Perth Amboy**—Standard Underground Cable Co., 50 Church St., New York, 3 story, 50x150 ft., brick and steel factory, here, to Turner Constr. Co., 244 Madison Ave., New York City. Noted June 8.

**Pa., Bridgeport**—J. Lees & Sons, Bridgeport, 5 story, 103 x 132 ft. factory, to J. S. Rogers & Co., Drexel Bldg. Phila.

**Pa., Phila.**—Bayuk Bros., 3rd and Spruce Sts., 4 story, 84 x 109 ft. cigar factory, rein.-con. and brick, plain foundation, to J. S. Rogers, Drexel Bldg., $90,00. Noted June 15.

**Pa., Phila.**—Congress Cigar Co., 3rd and Spruce Sts., 8 story, 70 x 140 ft. rein.-con. and brick factory, 300-304 South 3rd St., to J. N. Gill Co., Otis Bldg. Archts. est. $150,000.

**Pa., Phila.**—Hurley Motor Co., 219 North Broad St., 2 story, 110 x 204 ft. service building, 31st and Thompson Sts., to Cramp & Co., Denckla Bldg., $200,000.

**Pa., Pittsburgh** — Hunting-Davis Co., archts., Century Bldg., 1 story, 41 x 108 ft. brick and tile garage, Western Ave., to Rose & Fisher, Penna Ave., for T. Donaldson, 1100 Western Ave. Noted Aug. 3.

**Pa., Scranton**—See "Streets and Roads."

**Fla., Tampa**—White Star Laundry, Inc., 204 Cass St., general contract 2 story, 105 x 172 ft. steam laundry, 1st floor rein.-con., 2nd floor brick and timber, to Logan Bros., 305 Dawson-Thornton Bldg., $69,800.

**O., Cleveland**—Cleveland Folding Machine Co., 5200 Euclid Ave., 2 story, 96 x 180 ft., brick, steel and rein.-con. factory, East 61st St. near Euclid Ave., to A. A. Lane Constr. Co., 1869 East 55th St. Engrs. est. $75,000.

**O., Cleveland**—D. Round & Sons, Shop 3, A. B. C. line, 2 story, 52 x 275 ft., brick and steel foundry and shop, to E. R. Russell, 1416 St. Clair Ave. Engrs. est. $60,000. Noted Aug. 10.

**O., Cleveland**—A. W. Henn and J. L. Free, 1004 Prospect Ave., 1 story, 100x200 ft., brick and steel garage and commercial building, 3746 Prospect Ave., to Austin Co., 16112 Euclid Ave. Archts. est. $75,000.

**O., Cleveland**—Standard Envelope Co., 1011 Oregon Ave., 1 story, 155x200 ft., brick, steel and concrete factory, East 30th St. and Chester Ave., to Bolton-Pratt Constr. Co., Columbia Bldg. Archts. est. $100,000. Noted July 6.

**O., Cleveland**—See "Buildings".

**O., Portsmouth**—Portsmouth Stove & Range Co., Gallia and Campbell Sts., 5 story factory addition, to Ferro Concrete Constr. Co., c/o owner, Archts. est. $75,000.

**O., Portsmouth**—Universal Motor Co., 9th and Chillicothe Sts., 2 story, 130x296 ft. garage, to F. Carson, Portsmouth, $80,000.

**Ind., Indianapolis**—see "Sewers".

**Ill., Chicago**—B. H. Gwathmey, 1508 East 66th Pl., 1 story, 91x127 ft., rein.-con., brick and steel garage, 1947-53 East 57th St., to Berquist Bros., 7467 Exchange Ave. Archts. est. $40,000.

**Wis., Milwaukee**—S. S. Cyril & Methody Congregation, 1110 Windlake Ave., 1 story, 46 x 50 ft., central heating plant, brick and concrete, plain foundation, Hayes Ave., to Milwaukee General Constr. Co., 427 Mitchell St.; boilers to Downey Heating & Supply Co., 613 Clybourn St. Engrs. est. $40,000.

**Wis., Phillips**—Kneeland-McClung Co., 1 story, 60 x 210 ft. saw mill, brick, rein.-con. and steel, plain foundation, to W. A. Graham, Phillips. Engrs. est. $75,000. Noted July 13.

**Wis., Racine**—Belle City Malleable Iron Co., Kewaunee St., 1 and 2 story, 80x100 ft., brick and timber factory and office, plain foundation, to Nelson & Co. Janes Bldg. Engrs. est. $65,000.

**Wis., Union Grove**—State Bd. Control, Capitol Bldg., Madison, 1 story, 50 x 95 ft., brick, rein.-con. and steel power house, plain foundation, at State Home for Feeble Minded, here, to Immel Constr. Co., 200 North Main St., Fond du Lac, $38,843. Engrs. est. $55,000.

**Ia., Burlington**—Chicago, Burlington & Quincy R.R., 547 West Jackson Blvd., 2 story, brick addition to freight house, here, to T. S. Leake Constr. Co., 608 South Dearborn St., Chicago.

**Minn., Duluth**—M. O. Anderson, 1930 East 4th St., will build 1 story, 100 x 140 ft. rein.-con. and brick garage, Superior St. and 14th Ave. E., by day labor. $75,000.

**Minn., Minneapolis**—Dayton Co., 7th St. and Nicollet Ave., 2 story, 100 x 143 ft. rein.-con., brick and tile garage, 11th St. and 1st Ave. N., general contract to Splady & Haagenson, 1023 Plymouth Bldg. $61,000.

**Minn., Minneapolis**—Payne Motor Co., 1301 Hennepin Ave., 3 story, 100 x 150 ft. garage and sales building, concrete and brick, 14th St. and Harmon Pl., general contract to H. N. Leighton Co., 127 South 10th St., $117,098.

*In July*

***We published* 271 *tips on industrial expansion as follows*:**

Proposed work........ 133
Bids desired........ 37
Bids received........ 5
Contracts awarded........ 96

***More than* 30 *new big projects coming up every week.***

**Minn., St. Paul**—Tilden Produce Co., 65 East 3rd St., 4 story, 50 x 145 ft. produce building, rein.-con., brick and tile, East 3rd St. between Cedar and Minnesota Sts., general contract to E. J. Dunnigan, 315 Guardian Life Bldg. Cost complete $150,000. Noted June 22.

**Minn., Winona**—Papin Pickling Co., 1 and 2 story, 74 x 141 ft. brick, concrete and tile addition to plant, general contract to Seidlitz & Warner, Winona. Cost complete, $50,000. Noted May 18.

**Ont., Leaside**—Durant Motor Co. of Canada, Royal Bank Bldg., Toronto, general contract for plant incl. 1 story, 40 x 100 ft., 3 story, 80 x 401 ft., 3 story, 100 x 401 ft., all foregoing rein.-con., 1 story 20 x 200 ft. steel skeleton and galvanized iron, and 1 story, 130 x 500 ft. metal lath, stucco and brick, to N. McLeod, Kent Bldg., Toronto. $750,000. Contractor taking bids on all sub trades. Noted July 27.

**Ont., Toronto**—Toronto Hydro Electric System, 226 Yonge St., general contract for 2 story, 47 x 64 ft. rein.-con., brick and steel substation, Eglington Ave., to Witchall & Son, 156 St. Helens Ave., $42,000.

**B. C., New Westminster** — New Westminster Paper Mills Ltd., mill on North Arm of Fraser River, on Indian Reserve, to Dominion Constr. Co., 509 Richards St., Vancouver. Engrs. est. $100,000. Noted July 6.

## Buildings

### PROPOSED WORK

**N. H., Conway**—High School—High School Comn., having plans prepared by C. R. Whitcher, archt., 814 Elm St., Manchester, 2 story, brick and steel. $150,000.

**N. Y., Brooklyn**—Exchange—New York Telephone Co., 15 Dey St., New York, soon lets contract 2 story, 100 x 100 ft., brick, steel and stone, Coney Island Ave. and Ave. B, here. $200,000. McKenzie, Voorhies & Gmelin, 342 Madison Ave., New York, archts. and engrs.

**N. Y., Kings Park**—Nurses Home—State Hospital Comn., Albany, soon receives bids for completion of 3 story, brick, concrete foundation, with 2 wings, 35 x 52 ft. and 35 x 100 ft., Kings Park State Hospital, here. $175,000. L. F. Pilcher, Capitol, Albany, state architect.

**N. Y., New York** — Office — Plumbers Trade Journal Publishing Co., 25 West 34th St., having preliminary sketches made by J. Schaeffler, archt. and engr., 11 East 56th St., 6 story, brick, steel and stone, plain foundation, on 37 x 100 ft. lot at 239 West 39th St. Noted Feb. 9.

**N. Y., Rochester**—Store—McCurdy Co., Inc., Main and Elm Sts., plans to alter present store, build 2 story top addition, and 6 story, brick and steel side addition. Cost to exceed $200,000. Architect not announced.

**N. Y., Thiells**—Home—New York State c/o L. F. Pilcher, state archt., Capitol, Albany, plans 40 x 150 ft. home and 40 x 247 ft. assembly hall with 57 x 60 ft. wing, all 1 story, stone and concrete, at Letchworth Village, here. $210,000.

**N. J., Wildwood**—Hotel—W. Lipkin, Land Title Bldg., Phila., plans 6 story, 200 x 800 ft., 23rd St. and Boardwalk, here. $1,000,000. Architect not selected.

**Pa., Carbondale**—Store and Office—A. Jacobson, South Main St., plans 4 story (ultimately 8 story) rein.-con., brick and steel, Church St. $150,000 to $500,000. Architect not announced.

**Pa., Corry**—School—Bd. Educ. having plans prepared by W. G. Eckles, archt., New Castle, 2 story, junior high school. $150,000.

**Pa., Pittsburgh**—Apartment and Stores—R. G. K. Co., (real estate), 7321 Penn Ave., plans to alter and build addition, 4 story, 175 x 209 ft. rein.-con., brick and steel, Penn Ave. near Lexington Ave. $175,000. Private plans.

**D. C., Wash.**—Home and School—Dist. Comrs., Dist. Bldg., plan home and school for feeble minded. A. Harris, municipal archt. $250,000 appropriated.

**D. C., Wash.**—Office—J. W. Greene, 1416 K St., N. W., having plans prepared by G. N. Ray, archt., 1147 Connecticut Ave., N.W., brick and stone, 1400 K St., N.W. $150,000.

**D. C., Wash.**—School—Dist Comrs., 509 Dist. Bldg., plan to alter and build addition to Armstrong Manual Training School, P St. near 3rd St., N.W. Address Chief Clerk, c-o Eng. Dept., 427 Dist. Bldg., $500,000 appropriated.

**W. Va., Bluefield**—Hospital—St. Lukes Hospital, Bland St., having revised plans prepared by Mills & Millspaugh, archts., 67 East Long St., Columbus, O., 4 story, 100 x 150 ft., brick and stone. $150,000.

**W. Va., Charleston**—Store and Office—Kanawha Investment Co. having plans prepared by Mills, Millspaugh & Carmichael, archts., 67 East Long St., Columbus, O., 8 story, 200 x 200 ft., brick and stone. $450,000. Noted July 27.

**N. C., Asheville**—Station—Southern Ry., 1300 Pennsylvania Ave., Wash., D. C., plans passenger station, here. $1,000,000. J. A. Killian, Knoxville, Tenn., div. engr.

**Fla., Orlando**—Bank and Office—State Bank & Trust Co., having sketches made by W. L. Stoddart Co., archts., 9 East 40th St., New York City, 9 story.

**Fla., Orlando**—Office—J. F. Ange and A. Braxton, Sr., having plans prepared by

### Buildings (Continued)

M. S. King, archt., Orlando, 10 story, brick and steel, North Orange and Washington Sts. $260,000.

**La., Shreveport**—Courthouse, Jail, etc.—City authorized bond issue of $4,000,000 for new courthouse, jail, storm sewers, pavements, and fire alarm system.

**La., Shreveport**—Schools—Voted $1,000,000 bonds for new high school and 7 grammar schools. Architect not selected.

**O., Canton**—Hospital—Comrs. Stark Co. having revised plans prepared by R. M. Johnson, archt., c?o County Comn., for hospital, (capacity 55 beds), 3rd St., N.E. $160,000.

**O., Cleveland**—Store—Halle Bros. Dept. Store, c/o S. P. Halle, pres., Huron Rd. and Euclid Ave., plans brick, steel and concrete addition, Huron Rd. $400,000. Walker & Weeks, 1900 Euclid Ave., archts. Noted Dec. 1.

**O., Maple Heights** (Bedford P. O.)—School—St. Wenceslas Catholic Church, 2666 East 35th St., Cleveland, having plans prepared by W. C. Jansen, archt., Electric Bldg., Cleveland, 3 story, 103 x 150 ft., brick, steel, concrete and stone, Libby Rd., here. $150,000. J. Kondelka, pastor.

**O., Oxford**—Library—Bd. Trustees Miami University having plans prepared by F. L. Packard, archt., New Hayden Bldg., Columbus, 2 story, brick addition to library on campus. $150,000.

**O., Shaker Heights** (Cleveland P. O.)—High school—Bd. Educ. had plans prepared by C. W. Bates, archt., 77 12th St., Wheeling. W. Va., 3 story, brick, steel and concrete, Onaway Rd. $600,000.

**Ind., Bloomington**—Lodge—Lodge 22, F. & A. M., having plans prepared by Rubush & Hunter, archts., 430 Amer. Central Life Bldg., Indianapolis, 3 story, 78 x 112 ft. brick, stone trim. $150,000.

**Ind., Evansville**—High School—Bd. Educ. having revised plans prepared by J. C. Llewellyn, archt., 38 South Dearborn St., Chicago, 2 story, 250 x 300 ft., brick. $400,000. Noted May 25.

**Ind., Frankfort**—Church—First Christian Church, Columbia and Walnut Sts., plans 2 story, brick. $150,000. Architect not selected.

**Ind., Logansport** — School — Bd. Educ. plans 2 story, brick and steel. $240,000. Allen & Gariott, Masonic Temple, archts.

**Ind., Michigan City**—Lodge—Masonic Temple Assn. having plans prepared by Nicol, Scholer & Hoffman, archts., Lafayette, 3 story, 82 x 82 ft. brick, terra cotta and steel, 6th St. $150,000.

**Ind., Muncie**—Gymnasium—Indiana State Normal School, Terre Haute, plans 2 story, brick and steel, here. $150,000. Kibele & Gerrard, Muncie, archts.

**Mich., Coldwater** — High School — Bd. Educ. having plans prepared by R. A. Leroy, archt., Pratt Bldg., Kalamazoo, 3 story, 90 x 120 ft. rein.-con. and brick. $150,000. G. Hadley, 160 North Hudson St., secy.

**Mich., Coldwater**—Hotel—E. Batterson, archt., Hanselman Bldg., Kalamazoo, preparing plans and takes bids about October, 4 story, 60 x 130 ft. brick and steel, plain foundation, for F. Eaton, c/o Grant Hotel. $250,000.

**Mich., Detroit**—Apartment—O. Kavieff, archt., 712 Empire Bldg., preparing plans 3 story, 98 x 140 ft. brick and steel, plain foundation, Blaine Ave. $230,000. Owner's name withheld.

**Mich., Detroit**—Lodge—Jubilee Temple, Odd Fellows Lodge, c/o P. Rossello, archt., 406 Congress Bldg., having plans prepared 3 story, 88 x 130 ft. rein.-con., brick and steel, plain foundation, Mack Ave. $225,000.

**Mich., Grand Rapids** — Hospital — Sligh Memorial Hospital, c/o Williamson, Crow & Proctor, archts., Gilbert Bldg., having preliminary plans prepared and takes bids early in 1923, 5 story, rein.-con. and brick, Knapp St. $350,000.

**Mich., Kalamazoo**—High School—R. A. Leroy, archt., Pratt Bldg., takes bids Sept. 15, 4 story, rein.-con., brick, steel and terra cotta, addition, plain foundation, for Bd. Educ. $430,000.

**Mich., Lansing**—Bank—City Natl. Bank, 101 North Washington St., having plans prepared by E. A. Bowd, archt., 127 West Allegan St., 3 story, brick and steel, South Grand Ave. $[illegible]50,000.

**Mich., Lapeer**—High School—Bd. Educ. having plans prepared by R. A. Leroy, archt., Pratt Bldg., Kalamazoo, 3 story, rein.-con. and brick. $200,000.

**Mich., St. Johns**—High School—R. A. Leroy, archt., Pratt Bldg., Kalamazoo, preparing plans and takes bids about Sept. 20, 2 story, 130 x 160 ft. rein.-con. and brick, for Bd. Educ. $175,000.

**Ill., Chicago**—Office—Graham, Anderson, Probst & White, archts., 80 East Jackson Blvd., preparing plans 19 story, Michigan Ave. near North Water St., for W. Wrigley, Jr., Wrigley Bldg. $5,000,000.

**Ill., Chicago**—School and Hall—A. Foster, archt., 56 East Randolph St., soon receives bids 3 story, 75 x 125 ft., rein.-con., brick and steel, 19th and Leavitt Sts., for St. Anns Catholic Congregation, c/o architect. $175,000.

**Ill., Chicago**—Store and Office—Levy & Klein, archts., 111 West Washington St., preparing plans 2 story, rein.-con., brick and steel, Rush and Oak Sts., $300,000. Owner's name withheld.

**Ill., Evanston**—College—W. S. Holmes, archt., Tussing Bldg., Lansing, Mich., preparing preliminary plans and receives bids next spring, 3 and 4 story, here, for Kindergarten College, c/o E. BaBker. $750,000.

**Wis., Green Bay**—Hospital—Deaconess Methodist Hospital, 742 South Webster St., having plans prepared by Oppenhamer & Obel, archts., Green Bay, 3 story, 64 x 147 ft., brick and steel addition, plain foundation. $150,000.

**Wis., Milwaukee**—Apartment—R. Razall, archt., 114 Grand Ave., making plans 3 story, (2 units, each 50 x 112 ft.) brick and concrete, plain foundation, on East Side. $225,000. Owners name withheld.

## *July Tips*

***We published a total of 2,172 items on all classes of construction, an average of 543 a week.***

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| Proposed work | 696 |
| Bids desired | 600 |
| Bids received | 173 |
| Contracts awarded | 703 |

***Construction industry is not on strike; working hard. Keep your eye on August.***

**Wis., Milwaukee**—Business—C. Niss & Sons, 697 3rd St., having preliminary plans prepared by Tullgren & Sons, archts., 425 East Water St., 3 story, 70 x 150 ft., brick and concrete addition, plain foundation, 3rd St.

**Wis., Milwaukee**—Club—Milwaukee Elks Lodge, 448 Jefferson St., had plans prepared by R. A. Messmer & Bros., archts., 221 Grand Ave., and soon takes bids 9 story, 110 x 145 ft., rein.-con. and brick, plain foundation, Mason and Marshall Sts. $1,200,000.

**Wis., Milwaukee** — High School — Our Lady of Mercy Academy, c/o W. Shemners, 378 Natl. Ave., plans 3 story, 106 x 150 ft., rein.-con. and brick, plain foundation, Mineral St. $250,000. Architect not selected.

**Wis., Milwaukee** — Hospital — Deaconess Hospital, 1815 Grand Ave., having preliminary plans prepared by Leiser & Holst, archts., 105 Wells St., 4 story, 44 x 110 ft., brick and concrete addition, plain foundation, Grand Ave. $150,000.

**Wis., South Madison** (Madison P. O.)—School—Bd. Educ. having plans prepared by F. L. Kronenberg, archt., Carroll Blk., Madison, 2 story, 60 x 180 ft., high and grade school, brick, rein.-con. and stone, plain foundation. $150,000.

**Ia., Cedar Rapids**—High School—Bd. Educ., c/o J. A. Motejl, secy., 705 1st Ave., soon receives bids 3 story, 160 x 200 ft., rein.-con., brick, tile, stone and terra cotta. $475,000. F. Tustison Co., 322 Auditorium Bldg., Minneapolis, Minn., engrs. B. Rugh, 811 Security Bldg., archt.

**Ia., Cedar Rapids**—High School—Bd. Educ., c/o J. A. Motejl, secy., 705 1st Ave., plans 3 story, rein.-con., brick, tile and stone. $350,000. F. Tustison Co., 332 Auditorium Bldg., Minneapolis, Minn., engrs. B. Rugh, 811 Security Bldg., archt.

**Minn., St. Paul**—Bank—Merchants Natl. Bank, 4th and Robert Sts., having plans prepared by A. Moorman & Co., archts., Chamber of Commerce Bldg., 3 story, 25 x 125 ft. rein.-con., brick and tile addition, 4th St. near Robert St. $150,000.

**Minn., St. Paul**—Apartment—P. Reilly, 633 Dayton Ave., having plans prepared by J. C. Niemeyer, archt., 641 Endicott Bldg., 3 story, brick and tile, Otis and Dayton Aves. $150,000.

**Mo., Kansas City**—Hotel—C. O. Jones, 308 Commerce Bldg., soon takes bids 11 story, 48 x 126 ft. brick, 911 Holmes St. $400,000. Brostrom & Drotts, 310 Reliance Bldg., archts.

**Mo., Kansas City**—Theatre—Washington Theatre Building Co. soon takes bids, brick and terra cotta, Poseo St. and Parade Way. $350,000. G. M. Mack, mgr. V. DeFoe, 720 Scarritt Bldg., archt.

**Okla., Pawhuska**—Hotel—C. A. and J. L. Duncan, having preliminary plans prepared by E. Forsblom, archt., 405 Sedgwick Bldg., Wichita, Kan., 4 story, 52 x 190 ft., rein.-con., brick and stone. $200,000.

**Cal., Daly City**—High School—Jefferson Union High School Dist. plans election to vote on $180,000 bonds for high school. Address Owner, c/o County Superintendent of Schools, Redwood City. Architect not selected.

**Cal., Sacramento**—Club—Knights of Columbus, 1214 K St., plan lodge and club in downtown district. $200,000. Architect not selected.

**Cal., Tulare** — School — Tulare Union High School Dist. had preliminary plans prepared by Swartz & Ryland, archts., Rowell Bldg., Fresno, various school buildings, incl. girls and boys gymnasium buildings, mechanical arts building, and 6 additional class rooms for present structure. $150,000.

**Ont., Oshawa**—School—Bd. Educ. having plans prepared by Hutton & Sauter, archts., Bank of Hamilton Bldg., Hamilton, 3 story, 18 room, rein.-con., brick and steel, Center St., $200,000.

### BIDS DESIRED

**N. H., Nashua**—Bank—Aug. 23, by Second Natl. Bank, 185 Main St., brick, steel and stone, plain foundation. $200,000. Mowbray & Uffinger, 56 Liberty St., New York, archts. and engrs. Noted July 20.

**N. Y., Albany**—School—Aug. 28, by Bd. Contr. and Supply, City Hall, constructing P. S. 20, North Pearl and North 2nd Sts., (1) entire work, (2) plumbing, (3) heating and ventilating, (4) electric work. Pember, Whittemore & Demers, 24 James St., archts.

**N. Y., New York**—Office—Forty Nine-Fifty Three West 45th St. Corp., c/o Sommerfeld & Steckeler, archts. and engrs., 31 Union Sq., brick, steel and stone, plain foundation, West 45th St. $350,000. Work will be done by separate contracts under supervision of architects. Noted June 2.

**N. Y., New York**—Apartment—J. H. McNally, c/o E. Djorup, archt. and engr., 1345 Chisholm St., brick, steel and stone, Jerome Ave. $275,000. Work will be done by separate contracts under supervision of architect.

**Pa., Erie**—School—Aug. 28, by School Dist., constructing Roosevelt School, 2 story, 167 x 303 ft. concrete, brick and steel. $450,000. W. W. Meyers, Erie, archt. Mayer, Valentine & Cameron, Erie Bldg., Cleveland, O., engrs.

**Pa., Phila.**—Sales, etc.—F. E. Hahn, archt., 1112 Chestnut St., taking bids 3 story, 26 x 100 ft. brick and steel sales and service building, plain foundation, 1305 North Broad St., for A. N. Greenfield, 15th and Chestnut Sts. $200,000.

**Pa., Phila.**—Store and Office—Hoffman-Henon Co., archts., Finance Bldg., taking bids 4 story, 50 x 160 ft. brick and steel, plain foundation, 1229 North Broad St. $250,000. Owners name withheld.

**Pa., Phila.** — Magaziner & Eberhardt, archts., 603 Chestnut St., taking bids, 5 story, 72 x 81 ft. brick and steel, plain foundation, Cherry and Lambert Sts., for Y.M.C.A., 18th and Arch Sts. $200,000.

**Pa., Titusville — Theatre and Store —** Morosco Holding Co., c/o G. R. Bental, Morosco Theatre, 25 West 43rd St., New York, and E. DeRosa, archt., 110 West 40th St., New York, taking bids 1 story, 40 x 120 ft. and 2 story, 87 x 100 ft. brick, steel and terra cotta, West Spring St., here. $150,000. Noted July 13.

**D. C., Wash.**—Apartment—L. E. Scholtes, 819 15th St., will build apartment house at 2500 Massachusetts Ave., N.W., by separate contracts. $325,000. Private plans.

**W. Va., Beckley**—Bank and Office—Aug. 18, by R. M. Bates, archt., Commock Watts Bldg., Huntington, 8 story, 50 x 70 ft., brick and stone, Fayette and Main Sts., for Beckley Natl. Bank. $175,000.

**N. C., Duke**—School—Aug. 23, by Duke School Dist. Com., 2 story, 18 room, brick. $150,000. E. H. Bost, chn. Architect not announced.

**La., Baton Rouge**—Sanitorium—Aug. 31, by A. Gassler, pastor, Baton Rouge, 4 story, 107 x 323 ft. concrete and brick, for Lady of the Lake Sanitorium. $170,000. W. T. Nolan, Canal Commercial Bank Bldg., New Orleans, archt.

**O., Canton**—Bank and Office—Aug. 22, by First Natl. Bank, Tuscarawas and Market Sts., 14 story, 85 x 87 ft., brick, steel and concrete. $400,000. F. L. Packard, New Hayden Bldg., Columbus, archt. Noted May 4.

Buildings (Continued)

**O., Cleveland**—Commercial and Market—Pearl-State Rd. Market Co., c/o C. D. Kamp, pres., c/o Euclid-46th St. Market, taking bids and opens same about Aug. 22, 2 story, 200 x 200 ft., brick, steel and concrete, Pearl and State Rds. $250,000. A. E. Keller, 2570 Overlook Rd., archt. Noted May 11.

**O., Columbus**—Administration, etc. — Sept. 7, by C. E. Steeb, secy. Bd. Trustees Ohio State University, 3 story, 100 x 180 ft., administration building, $300,000, 4 story, 75 x 145 ft., medical science building, $250,000, 4 story, 120 x 180 ft., college of commerce building, $300,000, on campus, all brick, concrete and stone. J. N. Bradford, Ohio State University, archt. Noted July 20.

**O., Columbus**—Schools—Aug. 21, by Bd. Educ. at office E. L. McCune, clk., Ohio Natl. Bank Bldg., improving Dana Ave. School, John Boroughs School, on West Sullivant Ave., Linden School, on Cleveland Ave., and Pilgrim School on Taylor Ave. H. D. Smith, 50 East Town St., archt.

**O., Lorain**—Store—Kirtland Bond Co. taking bids 5 story, brick, steel and concrete, Bway. $150,000. De Kalb & Trevor, 404 Holland Pl., Lima, archts.

**O., Oxford**—Dormitory—Aug. 25, by Bd. Trustees Miami University, 3 story, 80 x 200 ft., brick, on Campus. $250,00. F. L. Packard, New Hayden Bldg., Columbus, archt.

**O., West Park** — Church — W. Koehl, archt., Park Bldg., Cleveland, taking bids 2 story, 53 x 118 ft., brick, steel and concrete, West 135th St. and Lorain Ave., here, for St. Vincent De Pauls Church, 1107 Superior Ave., Cleveland. M. J. Flannigan, pastor. $150,000. Noted July 6.

**Ind., Bloomington**—High School—Aug. 23, by Bd. Educ., 2 story, 101 x 114 ft. brick. $175,000. A Grindle, 122½ Walnut St., archt.

**Ind., Bloomington** — Theatre — Shrouds-Stoner & Co., archts., Tribune Bldg., Terre Haute, taking bids 1 story, 64 x 130 ft. brick and steel, here, for H. L. Vondersmith, Washington. $150,000. Noted Aug. 10.

**Wis., Madison** — Office — F. M. Riley, archt., Conklin Bldg., taking bids 3 story. 75 x 150 ft., brick, rein.-con. and stone, plain foundation, Fairchild St., for Madison Gas & Electric Co., 120 East Main St. $150,000.

**Wis. Wauwatosa**—Home—Aug. 28, by R. A. Messmer & Bros., archts., 221 Grand Ave., Milwaukee, 3 story, 80 x 160 ft. home and 25 x 30 ft. boiler house, brick and concrete, plain foundation, West Main St., for Lutheran Kinderheim, West Milwaukee Ave. $150,000.

**Minn., Milaca**—Courthouse—Sept. 6, by Mille Lacs Co., 2 story, 75 x 115 ft. rein.-con., brick and tile. $150,000. Croft & Boerner, 1206 Marquette Ave., Minneapolis, archts.

**Ont., Toronto**—College—Aug. 21, by Darling & Pearson, archts., 2 Leader Lane, 3 story, 50 room, rein-con., brick and steel, Hoskin Ave., for Trinity College, Queen St. W. $500,000.

### BIDS RECEIVED

**N. Y., New York**—School—Bd. Educ., 500 Park Ave., opened bids Aug. 9, general construction P. S. 65, northerly side East 141st St., between Cypress and Powers Aves., Bronx, from E. Deibitsch, 70 East 45th St., $609,000. Frymier & Hanna, 25 West 45th St., $611,450; T. A. Clarke Co., 122 Livingston St., Brooklyn, $617,000.

**O., Mt. Sterling**—High School—E. R. Julian, clk. Bd. Educ. opened bids Aug. 10, 2 story, 120 x 133 ft., from L. G. Foltz & Sons, 448 Nelson Rd., Columbus, $82,200; G. B. Hicks, South Charleston, $94,900. Noted July 20.

**O., Rocky River**—High School—Bd. Educ. 2 story, brick, steel and cocrete addition, from F. H. Vogel, Ridge Rd., Cleveland, $126,000; Hearn Constr. Co., 4501 Euclid Ave., Cleveland, $147,360; Willing Bros., Bellevue, $149,231. Engrs. est. $200,000. Noted July 27.

**Minn., Mankato**—Administration—State Bd. Control, Capital, St. Paul, opened bids Aug. 10, 3 story, irregular shaped, rein.-con., brick and tile at State Teachers College, here, from Fleisher Constr. Co., 1000 Builders Exch. Bldg., Minneapolis, $255,000; J. B. Nelson Constr. Co., Mankato, $255,495; Madsen Constr. Co., 848 Builders Exch. Bldg., Minneapolis, $255,847. Noted July 27.

**Cal., Berkeley**—Hall—University of California, 2 story, 70 x 186 ft., rein.-con., from R. Trost, 26th and Howard Sts., San Francisco $337,016; K. E. Parker, 519 California St., San Francisco, $337,400; I. M. Sommer Co., Balboa Bldg., San Francisco, $338,428. Noted July 13.

**Cal., Stockton**—School—Bd. Educ., 13 room school, Burkett Acres, general contract from Shepherd & Riley, Yosemite Bldg., Stockton, $119,207; H. E. Vickroy, 1122 North Commerce St., Stockton, $120,200; Brown & Stafford, Madera, $121,901. Noted July 13.

### CONTRACTS AWARDED

**N. Y., Astoria** (Long Island City P. O.)—School—Bd. Educ., 500 Park Ave., New York, for P. S. 70, 12th Ave., here, to J. MacArthur Co., 22 Ormond Pl., Brooklyn, $597,000. Archts. est. $600,000. Noted Aug. 10.

**N. Y., Boonville**—School—Bd. Educ., 3 story, 109 x 142 ft., brick school, Ford and Posts Sts., to G. G. Hanlin, Herkimer. Archts. est. $185,000. Noted March 16.

**N. Y., Brooklyn**—Apartment—Sivin Bldg. Corp., c/o E. M. Adelsohn, archt. and engr., 1778 Pitkin Ave., 4 story, brick, steel and stone, Church Ave., by day labor. $200,000.

**N. Y., Brooklyn** — Apartment—Deisen Bldg. Corp., c/o Shampan & Shampan, archts. and engrs., 50 Court St., 128 x 129 ft., brick, steel and stone, Kingston Ave. and Montgomery St., by day labor. Archts. est. $200,000.

*In July*

***We published* 459 *tips on new commercial building construction*:**

**Proposed work........ 209**
**Bids desired........ 91**
**Bids received........ 12**
**Contracts awarded........ 147**

**$50,000,000 *in contracts*.**

**N. Y., Brooklyn**—School and Convent—Our Lady of Mercy Church, 384 Schermerhorn St., brick, steel and stone, plain foundation, 383 State St., to P. J. Hoey, 166 Montague St. Archts. est. $200,000.

**N. Y., Irondequoit** (Rochester P. O.)—Temple—Masonic Temple Corp., 61 Clinton Ave., Rochester, c/o D. DeLelya, secy., 3 story, 85 x 400 ft., tapestry brick, Summerdale Ave., here, to F. H. Rapp, 188 Mount Hope Ave., Rochestetr.

**N. Y., New York**—Apartment—S. Rubin, c/o C. Schaefer, archt., 394 East 150th St., will build 6 story, brick, steel and stone, on Belmont Ave., by day labor. $200,000.

**N. Y., New York**—Showroom—S. and L. Building Co., c/o I. Margon & C. Glaser, archts. and engrs., 2806 3rd Ave., brick, steel and stone, plain foundation, 184th St. and Ryer Ave., by day labor. $150,000.

**N. Y., New York**—Theatre—H. G. Wiseman, archt. and engr., 25 West 43rd St., altering brick, steel and stone theatre, to Bertwin Constr. Co., 103 Park Ave., for Manhattan Opera House, West 34th St. Archts. est. $250,000. Noted Aug. 3.

**N. Y., Syracuse**—Hotel—G. B. Post & Sons, archts. and engrs., 101 Park Ave., New York, 11 story, brick, steel and stone, plain foundation, Harrison and Warren Sts., here, to Amsterdam Building Co., 138 East 44th St., New York, for Syracuse Hotel Corp., Burney Bldg. Archts. est. $2,500,000. Noted June 29.

**N. Y., Utica**—Hospital—Faxton Hospital Assn., Sunset Ave., brick and steel, Newall St., to Waldo Griffiths, Mayro Bldg. Noted June 23.

**N. J., Montclair**—Clubhouse—Montclair Golf Club, Verona St., clubhouse, 80 x 145 ft. with 35 x 70 ft. and 34 x 91 ft. wings, timber and stone, to C. J. Smith, 202 Academy St., Trenton, $150,000.

**Pa., Ardmore**—High School—School Bd., c/o A. Hamilton, 2 story, to F. M. Harriss & Co., 1520 Parrish St., Phila., $446,482. Noted April 20.

**Pa., Phila.**—Office and Service—Raeburn & Bailey, 32nd and Allegheny Aves., 6 story, 40 x 100 ft., rein.-con. and brick, plain foundation, 207-209 North Broad St., to W. Steele & Sons, 16th and Arch Sts.

**Pa., Pittsburgh**—Office—Natl. Union Fire Insurance Co., Chamber Commerce Bldg., 3 story, 73 x 129 ft. concrete brick and steel, to W. T. Grange Constr. Co., Keenan Bldg. archts. est. $200,000.

**Fla., Tampa** — Bank — Exchange Natl. Bank, 601 Franklin St., 3 story, 55 x 85 ft., granite, marble and concrete, 601 Franklin St., to Stone & Webster, 147 Milk St., Boston, cost plus percentage basis. Engrs est. $250,000.

**La., Shreveport**—Municipal and Jail—Rein.-con. and steel municipal building and jail, to Central Contg. Co., Shreveport. $198,000.

**O., Akron**—Grade School—Bd. Educ., 2 story, 160 x 200 ft., brick, plain foundation, Tallmadge Ave., general contract, to Akron Storage & Constr. Co., Herberick Bldg., $194,000, heating and ventilating to Kraus Plumbing Co., Akron, $40,000.

**O., Cleveland**—Apartment—J. L. Free Co., 1004 Prospect Ave., 8 story, 100 x 123 ft., brick, metal joist and concrete, East 89th St. and Carnegie Ave., to Crowell & Little Constr. Co., 3751 Prospect Ave. Archts. est. $400,000.

**O., Cleveland**—High School—Bd. Educ., 2 story addition, general contract to F. H. Vogel, Ridge Rd., $102,000.

**O., Cleveland**—Medical School, etc. — Western Reserve University, c/o S. S. Wilson, secy., 10940 Euclid Ave., 1, 3 and 6 story, brick, steel and concrete medical school, power house and animal hospital, Cummington Rd., to Lundoff-Bicknell Co., 5716 Euclid Ave. Archts. est. $2,500,000. Noted July 6.

**O., Cleveland**—School—Our Lady of Peace Church, 12402 Buckingham Ave., 3 story, 66 x 139 x 188 ft., brick, steel and concrete, East 126th St. and Shaker Blvd., to O'Connell & Bauerle, 2641 East 115th St. Archts. est. $200,000. Former contract rescinded. Noted Aug. 3.

**O., Cleveland**—Store, Office and Apartment—Essex Impvt. Co., c/o M. Marmorstein, Ulmer Bldg., 2 and 4 story, brick and timber, East 105th St. and North Blvd., to L. Duchon, Essex Rd., Cleveland Heights. Archts. est. $200,000.

**O., Cleveland** — Store and Office, etc.—Morelease Co., c/o J. Laronge, 214 Williamson Bldg., 3 story, 50 x 200 ft. store and office building, 1 story theatre, seating capacity 1,500, and 4 story apartment building, East 105th St. and St. Clair Ave., to W. F. Thompson & Son Co., 5103 Euclid Ave. Archts. est. $310,000.

**O., East Cleveland** (Cleveland, P. O.)—Apartment—R. A. Stillwell, 2166 St. James Parkway, Cleveland Heights, 3 story, 86 x 117 ft., brick and steel, Taylorhurst allotment, here, to Pell & Owens, 2391 East 85th St., Cleveland. Archts. est. $150,000.

**Ind., Indianapolis** — Apartment — D. O. Kearby, 422 Amer. Central Life Bldg., 3 story, 75 x 85 ft. brick and concrete, 611 North Pennsylvania St., to Conder & Culbertson, 623 North Noble St. Archts. est. $150,000. Noted Aug. 10.

**Ind., Indianapolis**—Apartment—E. G. Spink & Co., Hume Mansur Bldg., will build 6 story, 145 x 217 ft., brick and concrete, rein.-con. flooring, 16th St., by day labor. $400,000. W. K. Eldridge, Hume Mansur Bldg., archt.

**Ind., Terre Haute**—Apartment—Wabash Apartment Co., c/o J. D. Palmer, archt., McKeen Bank Bldg., 4 story, 82 x 140 ft., brick, to North-Raffin Constr. Co., 914 Chestrut St. Archts. est. $400,000. Noted Aug. 10.

**Mich., Houghton**—High School—School Dist. 1, three story, 185 x 250 ft. rein.-con., brick and steel, to J. J. Michels, Rice Bldg., $340,000. Noted June 29.

**Mich., Marenisco** — School — Township School Dist., 3 story, 62 x 106 ft. concrete, brick and tile, plain foundation, to H. Gundlach, Leopold Bldg., Houghton. Archts. est. $150,000.

**Ill., Chicago** — Apartment — Steinman & Larner, c/o J. H. Klafter, archt., 127 North Dearborn St., 3 story, 93 x 125 ft., rein.-con., brick and steel, Dougas Blvd. and Albany Ave., to Behrens Constr. Co., 2149 Talman Ave. Archts. est. $150,000. Noted July 6.

**Wis., Alverno** (Rd. Manitowoc)—Infirmary—Franciscan Sisters of Christian Charity, 3 story, 46 x 115 ft. brick and concrete, plain foundation, to Hutter Constr. Co., 128 Western Ave., Fon du Lac. Engrs. est. $150,000.

**Wis., Milwaukee**—Apartment—O. Brachman, 425 East Water St., 3 story, 68 x 92 ft., brick and concrete, plain foundation, Grand Ave., to H. Riesen, 1388 Humboldt Ave. Engrs. est. $150,000. Noted July 6.

**Minn., St. Paul**—Hotel—F. H. Tandy (representing owners) Brinsmeade Apts., 15 story, 99 x 112 ft. steel, brick and tile, St. Peter St. between 4th and 5th Sts., to Smith & Vandanaker, 501 Exch. Bank Bldg., cost plus basis. Cost complete $1,600,000.

**Wash., Seattle**—Bank—Capital Natl. Bank, 413 Main St., 2 story, 60 x 108 ft., concrete and Wilkeson stone, to Rounds-Clist Co., Walker Bldg. Archts. est. $200,000.

Buildings (Continued)

**Cal., Palo Alto**—Dormitory—University of California, 2 and 3 story, rein.-con., to G. Wagner, 251 Kearny St., San Francisco, on percentage basis. About $400,000. Noted July 20.

**Cal., San Francisco**—Apartment—O. B. Martin, c/o C. A. Meussdorffer, archt., Humboldt Bank Bldg., 10 story, rein.-con., Hyde and Greenwich Sts., to R. McLeran Co., Hearst Bldg., $200.000. Noted July 13.

**Cal., San Francisco**—Office Bldg.—R. L. Dunn, c/o J. R. Miller, archt., Lick Bldg., 17 story, fireproof, Sutter and Powell Sts., to P. A. Palmer, Monadnock Bldg., $1,500,000.

**Que., Montreal** — Church — Church of Sacred Heart, Ontario St. E., 77 x 220 ft. church, 80 ft. high, on Ontario St., E. to U. Boileau, 568 Garnier St. $295,000. Noted Aug. 3.

**Que., Montreal**—Medical Office—Ross & McDonald, archts. 1 Belmont St. 10 story, 79 x 150 ft. concrete and steel, Sherbrooke and Guy Sts., to Foundation Co. Ltd., St. Catherine St. W., $600,000.

**Que., Montreal**—School—Catholic School Comrs. Western Dist., 2198 St. James St., 3 story, 60 x 185 ft. rein.-con. and brick, Cote St. Paul Rd., to Fournier Bros., 26 St. James St. $150,000.

**Ont., Toronto**—Apartment—S. B. Green, 41 Austin Terrace, 4 story, 76 x 135 ft. concrete, brick, stone and tile, King and Queen Sts., masonry contract to Cameron & Stephenson, 42 Palmerston Sq.; steel to McGregor & McIntyre, Shaw St.; carpentry to Skinner & Long, Lake Shore Rd.; heating to G. G. Jackson, 311 Kennedy Ave. Total est. $200,000.

**Ont., Toronto** — Office—See "Miscellaneous" Car Barns.

# Federal Government Work

### PROPOSED WORK

**Pa., Pittsburgh**—Hospital—Treas. Dept., Wash., D. C., plans U. S. Veterans' Hospital, (250 beds) at Aspinwall, here. J. A. Wetmore, acting superv. archt.

**Md., Edgewood** — Quarters, etc. — Constructing Quartermaster, Edgewood Arsenal, plans 1 general officers house, 5 field officers quarters, 14 captains quarters, stable and plumbing, exterior water and sewer connections, etc.

**Va., Hampton Roads**—Riprap Protection—Spec. 4699—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans riprap protection for north breakwater, here.

**Wis., Racine—Pier**—U. S. Engineer, Federal Bldg., Milwaukee, will probably receive bids in September, completion of South Arrow Heal Pier, approximately 1,100 lin. ft. piling, concrete capped. Work incl. moving old pier and some dredging. F. S. Skinner, dist. engr.

**Col., Denver** — Repairs — Constructing Quartermaster, Denver, plans to repair Fitzsimons General Hospital, recently damaged by fire.

**Cal., Mare Island**—Riprapping .Dike—Spec. 4700—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans riprapping dike, here.

**H. T., Pearl Harbor**—Artesian Wells—Spec. 4702—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans 3 artesian wells, here. Bids to be opened at local yard.

### BIDS DESIRED

**Mass., Northampton**—Hospital—Director Veterans Bureau, 1044 Arlington Bldg., Wash., D. C., receiving bids superstructures for 9 patient buildings for Federal Psychopathic hospital, here.

**N. Y., Plattsburg**—Stables—Aug. 30 at office Construction Quartermaster, Plattsburg Barracks, 2 brick stables, here; adv. this issue.

**N. J., Dover** — Road — Sept. 1 at office Constructing Quartermaster, 39 Whitehall St., New York, concrete road at Picatinny Arsenal, here; adv. this issue.

**Md., Baltimore** — Remodeling, etc.—Aug. 31, by Treas. Dept., Wash., D. C., remodeling U. S. Marine Hospital, here; also mechanical equipment for above. J. A. Wetmore, acting superv. archt.

**Va., Norfolk**—Dredging—Sept. 14, at Office U. S. Engineer, dredging in Pagan River; adv. this issue.

**Ga., Augusta**—Roads and Walks—Aug. 24, by Treas. Dept., Wash., D. C., roads and walks at U. S. Pub. Health Service Hospital 62, here. J. A. Wetmore, acting superv. archt.

**Ala., Mobile**—Dredge Pontoons, etc.—Sept. 3, at Office U. S. Engineer, dredge pontoons and discharge pipe for U. S. Dredge Wahalak; adv. this issue.

**Cal., Pt. Vicente**—House, etc.—Aug. 22 by H. W. Rhodes, supt. lighthouses, Custom House, San Francisco, three 2 story, tile house and fog signal buildings, here.

### BIDS RECEIVED

**Md., Annapolis**—Refrigerating Plant—Spec. 4689—Bureau Yards & Docks, Navy Dept., Wash., D. C., refrigerating plant at U. S. Naval Academy, here, (1) work complete, from Clothel Refrigerating Co., 61 Bway., New York City (1) $1,950 (30 days) (2) $1,880 (30 days) (3) $160; Chatard & Morris, 304 Continental Bldg., Baltimore, (1) $2,050 (2) $2,050 (3) $256; York Mfg. Co., York, Pa., (1) $2,075 (50 days) (2) $2,020 50 days (3) $290. Noted July 27.

**N. Y., Tupper Lake**—Foundations—Spec. 4698—Bureau Yards & Docks, Navy Dept., Wash., D. C., foundations for 5 buildings at U. S. Veterans Hospital, here, (1) work complete, from W. M. Sutherland Building & Constr. Co., 408 Compton Bldg., St. Louis, Mo., (1) $42,000 (60 days) (2) $3 (3) $0.75 (4) $28 (5) $0.05; Northeastern Constr. Co., 101 Park Ave., New York, 1 $46,800 (60 days) (2) $2 (3) $0.40 (4) $22 (5) $0.06; Guarantee Constr. Co., 140 Cedar St., New York, (1) $49,360 (60 days) (2) $2 (3) $0.50 (4) $20 (5) $.06. Noted Aug. 3.

**N. J., Camden**—Dredging—U. S. Engineer, 815 Witherspoon Bldg., Phila., Pa., dredging in Delaware River, here, 174,000 cu.yd. scow measurement, from Amer. Dredging Co., 310 Mariner & Merchant Bldg., Phila., $0.34 per cu.yd.; Great Lakes Dredge & Dock Co., 17 State St., New York City, $0.59. Noted July 13.

**Cuba, Guantanamo**—Chimney and Flue—Spec. 4695—Bureau Yards & Docks, Navy Dept., Wash., D. C., chimney and flue at Naval Station, here, (1) work complete, from Webber Chimney Co., 332 South Michigan Ave., Chicago, (1) $10,890 (2) $1,470 (3) $600 (150 days). Noted July 27.

*In July*

*We published 98 tips on new Federal Government work:*

| | |
|---|---|
| Proposed work | 8 |
| Bids desired | 48 |
| Bids received | 13 |
| Contracts awarded | 29 |

*Contracts let three times heavier than in five issues of June.*

**H. T., Pearl Harbor**—Ordnance Buildings, etc.—Spec. 4566—Bureau Yards & Docks, Navy Dept., Wash., D. C., 6 ordnance buildings, railroad track, water main extensions, etc., at Kauhua ammunition depot, naval operating base, here, from J. L. Young Eng. Co., Ltd., Campbell Bldg., Honolulu (1) $132,822, (275 days) (2) $131,800 (275 days) (3) $3,000 (3 days) (4) $7,300 (5 days) (5) $7,000 (5 days) telegraphic modification (1) add $2,000 (2) add $2,000 (3) add $200 (4) add $800 (5) add $800. Newport Contg. and Eng. Co., Law Bldg., Newport News, Va., (1) $181,000 (180 days) (2) $177,600 (180 days) (3) add $4,000 deduct $2,500 (4) $5,000 (10 days) (5) $4,800 (10 days); Hawaiian Contg. Co., Honolulu, (1) $200,000 (180 days) (2) $200,000 (180 days) (3) $7,500 (3 days) (4) $5,500 (3 days) (5) $5,500. Noted June 15.

### CONTRACTS AWARDED

**Mass., Chelsea**—Mortuary—Spec. 4635—Bureau Yards & Docks, Navy Dept., Wash., D. C., mortuary at Naval Hospital, here, to A. Cacciagrano, 294 Washington St., Boston, $6,500 (50 days). Noted July 27.

**Mass., Northampton** — Foundations — Director Veterans' Bureau, 1044 Arlington Bldg., Wash., D. C., foundations for 9 patient buildings for Federal Psychopathic hospital, here, to Pontiac Constr. Co., 206 Lincoln Bldg., Detroit, Mich., $160,000. Noted June 29.

**Va., Hampton Roads**—Equipment—Spec. 4667—Bureau Yards & Docks, Navy Dept., Wash., D. C., coal and ash handling equipment, at naval base, here, to W. G. Hudson Corp., 50 Church St., New York City, $47,700 (100 days). Noted Aug. 3.

**Va., Hampton Roads**—Heating Plant—Spec. 4629—Bureau Yards & Docks, Navy Dept., Wash., D. C., heating plant, here, to Amer. Bridge Co., Wilkins Bldg., Wash., D. C., $24,707. Noted Aug. 3.

**Va., Norfolk** — Hospital — Treas. Dept., Wash., D. C., for east wing of U. S. Marine Hospital, here, to R. R. Richardson Bank of Commerce Bldg., $78,900.

**Va., Norfolk** — Mechanical Equipment — Treas. Dept., Wash., D. C., mechanical equipment for east wing U. S. Marine Hospital, here to W. G. Cornell Co., 19 Patterson St., N. E., Wash., D. C., $25,323 (7 months.) Noted July 20.

**Ky., Louisville**—Metal Work—U. S. Engineer, P. O. Box 72, metal work for Dam 44, Ohio River, Lot "A" to Amer. Car and Fdry. Co., Jeffersonville, Ind., $9,797; Lot "B" to C. Hegewald & Co., New Albany, Ind., $11,809; Lot "C," Penn Bridge Co., Beaver Falls, Pa., $6,410; Lot "D," Amer. Bridge Co., 1304 Union Trust Bldg., Cincinnati, O., $23,740. Noted June 22.

**Ky., Louisville**—Piling—U. S. Engineer, P. O. Box 72, steel sheet piling for Dam 44, Ohio River, to Lackawanna Steel Co., Lackawanna, N. Y., $31,059. Noted June 22.

**Wash., Grays Harbor**—Roads—U. S. Bureau Pub. Rds. clearing, and surfacing 4.5 mi. Quinault Forest Reservation Rd., 1,710 ft. 18-36 in. concrete pipe, 53,000 cu.yd. earth and 5,000 cu.yd. rock excav., 10,000 cu.yd. crushed rock or gravel, etc. to Montague-O'Reilly, Commonwealth Bldg., Portland, Ore., $101,073.

**Cal., San Francisco**—Drydocking, etc.—U. S. Engineer, 240 Montgomery St., drydocking, repairing and painting floating plant, to Hanlon Drydock and Shipbuilding Co., foot of 5th Ave., Oakland, $25,000.

# Miscellaneous

### PROPOSED WORK

**Cast Iron Pipe—Batavia, N. Y.**—City plans to purchase carload c.i. pipe, various sizes. J. Carmichael, clk.

**Subway, etc.—Buffalo, N. Y.**—C. V. Brunner and C. H. Guess, 168 Pearl St., are seeking franchise for constructing subway and elevated railroad system. $100,000,000.

**Dumping Platform and Ramp, etc.—New York, N. Y.**—J. H. Delaney, comr. Docks and Ferries, Pier "A," foot of Battery Pl., rejected bids opened July 27 for superstructure on pier at East 35th St. consisting of (a) concrete dumping platform and ramp (b) 1,610 sq.yd. granite block, (c) 735 cu.yd. asphalt (d) electrical work. Will readvertise. Noted Aug. 3.

**Amusement Park — Carbondale, Pa.** — J. McDonough, Poplar St., and others, plan extensive improvements at Newton Lake incl. new bath houses, dance pavilion, roller coaster, concrete road, hotel, etc. $25,000.

**Coal Washery — Kulpmont, Pa.**—W. L. Connell Coal Co., 416 Lackawanna Ave., Scranton, having plans prepared reconstructing coal washery recently destroyed by fire. $30,000.

**Comfort Station—Lancaster, Pa.**—Lancaster Co. and city having plans prepared by M. R. Evans, archt., 10½ East Orange St., comfort station, Lancaster Sq. $40,000.

**Gas Mains—Montreal, Que.**—Montreal Light, Heat & Power Co., Craig St. W., plans 3,000 ft. 12 in. gas main in Delormier Ave. from Sherbrooke St. to Mt. Royal Ave. $16,116, 12,555 ft. from Hochelaga Gas Wks., Bway. St. to Boulevard, 5,742 ft. 30 in., 2,989 ft. 24 in. and 3,824 ft. 20 in. c.i. pipe, $89,422, 2,063 ft. 6 in. c.i. pipe in McCord St. from Wellington to Notre Dame Sts. $8,590. E. S. Stanton, engr. gas distribution.

**Amusement Park — New Castle, Pa.** — Cascade Park, c/o E. D. McKibben, mgr., plans improvements incl. new dance pavilion, bathing beach, fun house, etc. $100,000. F. Foulke, New Castle, archt.

**Oil and Gas Wells—Williamsport, Pa**—Clinton Natural Gas & Oil Co., c/o D. D. Kline, secy., plans to drill 10 wells for oil and gas in Kettle Creek Field. $25,000.

**Fire Alarm System—Shreveport, La.**—See "Buildings."

**Gas Line—Shreveport, La.**—Bethany Oil & Gas Co., Shreveport, plans trunk pipe line from here to point in Panola Co., Texas, also several large and small lateral lines. $250,000. Engineer not announced.

**Conduits — Detroit, Mich.** — Bd. Fire Comrs., Larned St., plans 5,000 ft. 2 duct conduit, 8,500 ft. 3 duct conduit and 12,000 ft. 4 duct conduit, 70 manholes. L. Gascoigne, 647 East Larned St., supt.

**Pier, etc., Madison, Wis.**—Plans municipal bathing pier, tile and stone, boat lockers, shower rooms, dance halls, restaurant and athletic park, on Lake Mendota. $100,000. Engineer not selected.

**Transmission Line—Pound, Wis.** — Wisconsin Public Service Corp., 559 Marshall St., Milwaukee, having plans prepared for 20 mi. high voltage transmission line from here to Menominee, Mich. Mead & Seastone, State Journal Blk., Madison, engrs.

Miscellaneous (Continued)

**Paving Materials—St. Paul, Minn.**—Soon takes bids furnishing following materials for paving various streets, etc., 57,786 sq. yd. of 3 in. Y. P. creosoted wood blocks, 12,270 bbl. portland cement, 9,494 cu.yd. concrete sand for base, 6,140 cu.yd. crushed rock or gravel, 288,930 lb. pitch filler, 369,502 lb. asphalt filler for creosoted wood blocks, 15,780 lb. asphalt filler for brick block. O. Claussen, city engr.

## BIDS DESIRED

**Clearing, etc.—New York, N. Y.**—Aug. 25, by G. A. Whalen, comr. Plant & Structures, Municipal Bldg., clearing site, excavating, sheeting and bracing for foundation for proposed repair shop, 16th St. and Ave. C for Dept. Street Cleaning. Noted July 6 under "Industrial Works."

**Fine Gravel—New York, N. Y.**—Aug. 23. by Bd. Purch., Municipal Bldg., furnishing and delivering fine gravel to Dept. Parks, Manhattan Boro. G. A. Whalen, comr.

**Heating and Ventilating Apparatus, etc. —New York, N. Y.**—Aug. 22, by C. B. J. Snyder, supt. School Buildings of Bd. Educ., Concord St., Brooklyn, installing heating, ventilating and temperature-regulating apparatus, etc., in P. S. 130 (2nd portion) northeasterly corner of Hester and Baxter Sts., here.

**Oak Piles, etc.—New York, N. Y.**—Aug. 25, by Bd. Purch., Municipal Bldg., furnishing and delivering oak piles to Dept. Plant & Structures; broken stone and sand grits to Dept. Parks, Bronx Boro; hydrant repair parts and corporation cocks to Dept. Water Supply, Gas & Electricity. G. A. Whalen, comr.

**Paving Sand—New York, N. Y.**—Aug. 21. by J. Miller, pres. Manhattan Boro, Municipal Bldg., furnishing and delivering 3,000 cu.yd. paving sand.

**Boardwalk—Long Branch, N. J.**—Aug. 22 by City Comrs., City Hall, renewal and widening boardwalk from point near Morris Ave. to Sea View Ave. J. W. Seaman, 192 Bway., city engr.; adv. this issue.

**Sacking Scales—New Orleans, La.**—Bd. Port Comrs., New Court Bldg., taking bids 4 automatic sacking scales for grain elevator.

**Steam Turbine and Accessories—New Orleans, La.**—Oct. 10, by Sewerage and Water Bd., one 6,000 k.w. steam turbine and accessories. A. G. Moffat, secy. Adv. this issue.

**Steam Roller**—Cleveland, O.—R. H. Mirdock, City Hall, taking bids one 8 ton steam roller.

**Truck Scales—Youngstown, O.**—Duplex Storage Co., 728 Mahoning Ave., taking bids 20 ton or larger set of truck scales for weighing auto trucks, loads, etc.

**Steam Heating System, etc.—Green Bay, Wis.**—State Bd. Control, Madison, taking bids steam heating, ventilating and plumbing systems in State Reformatory, here, $25,000. A. Peabody, 2114 Chadbourne Ave., Madison, engr.

**Paving Materials—St. Paul, Minn.**—Aug. 28, by H. W. Austin, city purch. agt., materials for paving 43 blocks, 57,786 sq.yd. 3 in. creosoted wood blocks, 12,270 bbl. portland cement, 9,494 cu.yd. concrete sand for base, 6,140 cu.yd. crushed rock or gravel, 288,930 lb. pitch filler, 396,502 lb. asphalt filler for wood block, 15,780 lb. asphalt filer for brick. O. Claussen, city engr.

**Oil Storage Tank—San Antonio, Tex.**—See "Industrial Works."

**Tunnel—Merced, Cal.**—Aug. 25, by Dirs. Merced Irrigation Dist., 1,300 lin.ft. 10 x 10 ft. tunnel, concrete or gunite lined where necessary, driven through cement rock and hard pan, to carry 300 sec. ft. water, metal flume erected on timber sub-structure with concrete footings, 1,538 ft. of 9 ft. 11 in. and 2,200 ft. of 6 ft. 4 in. metal flume. R. C. Starr, ch. engr.

**Car Bodies, etc.—San Francisco, Cal.**—Sept. 6, by Bd. Pub. Wks., furnishing and delivering under Contr. 132, Municipal Ry. System, Sect. A, 20 or more car bodies, f.o.b. place of manufacture or San Francisco; Sect. B, street car trucks; Sect. C, street car motor equipment; Sect. D, street car air brake equipment, for city and San Francisco Co. M. M. O'Shaughnessy, city engr.

**Transformers, Induction Regulators and Switchgear—Melbourne, Victoria, Australia**—Nov. 4, by R. Liddelow, secy. State Electricity Comn. of Victoria, 22-32 William St., transformers, induction regulators and switchgear, Specification 293; adv. this issue.

## BIDS RECEIVED

**Heating and Ventilating Apparatus, etc. —Maspeth, N. Y.**—Bd. Educ., 500 Park Ave., New York, opened bids Aug. 11, installing heating, ventilating and temperature regulating apparatus, etc., in addition to and alterations in P. S. 72, here, from E. Rutzler Co., 404 East 49th St., New York, $48,462; W. J. Olvany, 100 Charles St., New York, $51,402; T. F. Hall, Inc., 405 Lexington Ave., New York, $52,000.

## CANAL—MERCED, CAL.

Bids were opened Aug. 1, by Merced Irrigation Dist., for constructing LeGrande Lake-Yosemite Canal, from (A) C. R. Adams, Biggs, (awarded contract for Divisions 2 and 3. Division 1 will be done by District); (B) S. D. Miller, Manteca; (C) Blumenkranz & Vernon, Stockton; (D) C. Thompson, Fresno; (E) J. Phillips, Oakland; (F) Isbell Constr. Co., Fresno; (G) Hewitt & Felch, La Habra; (H) Rose Constr. Co., Forum Bldg., Sacramento; (I) G. Pollock Co., Forum Bldg., Sacramento; (J) P. L. Burr, 512 Mission St., San Francisco; (K) Utah Constr. Co., Phelan Bldg., San Francisco; (L) D. A. Foley & Sons, Aitkin, Minn. The unit bids were as follows:

| | Division No. 1 | | | | Division No. 2 | | | | Division No. 3 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (1) | (2) | (3) | (4) | (1) | (2) | (3) | (4) | (1) | (2) | (3) | (4) |
| A | $0.22 | $0.37 | $0.80 | $0.03 | $0.185 | $0.30 | $0.80 | $0.03 | $0.24 | $0.35 | $0.80 | $0.03 |
| B | ..... | ..... | ..... | ..... | .285 | .60 | .90 | .01 | .285 | .57 | .90 | .01 |
| C | ..... | ..... | ..... | ..... | .24 | .48 | .90 | .03 | .24 | .48 | .90 | .03 |
| D | .49 | .49 | 1.25 | .05 | .30 | .65 | 1.25 | .05 | .30 | .65 | 1.25 | .05 |
| E | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | .28 | ..... | | |
| F | ..... | ..... | ..... | ..... | .48 | .65 | 1.25 | .05 | .48 | .65 | 1.25 | .05 |
| G | .43 | .43 | 2.00 | .02 | ..... | ..... | ..... | ..... | ..... | ..... | | |
| H | .50 | .50 | .50 | .10 | .50 | .50 | .50 | .10 | .50 | .50 | .50 | .10 |
| I | .50 | .50 | .50 | .10 | .30 | .30 | .30 | .10 | .28 | .28 | .28 | .10 |
| J | .55 | .55 | 1.00 | .03 | .55 | .55 | 1.00 | .03 | .55 | .55 | 1.00 | .03 |
| K | .53 | .53 | .53 | .05 | .53 | .53 | .53 | .05 | .53 | .53 | .53 | .05 |
| L | .93 | .93 | .93 | .05 | .93 | .93 | .93 | .05 | .93 | .93 | .93 | .05 |

Division 1—Canal 16 ft. wide on bottom, 7.8-ft. deep, 49,900 cu.yd. excavation; 46,500 cu.yd. borrow

Division 2—6,400 ft. canal, 16 ft. wide on bottom, 7.8 ft. deep.
6,850 ft. canal, 8 ft. wide on bottom, 5.5 ft. deep.
7,450 ft. canal, 5 ft. wide on bottom, 5.5 ft. deep. involving
104,500 cu.yd. excavation, 15,740 cu.yd. borrow.

Division 3—23,535 ft. canal, 8 ft. wide on bottom, 5.5 ft. deep.
16,425 ft. canal, 5 ft. wide on bottom, 5.5 ft. deep.
4,740 ft. canal, 5 ft. wide on bottom, 4.2 ft. deep, involving
90,600 cu.yd. excavation, 22,880 cu.yd. borrow.

**Heating and Ventilating Apparatus, etc. —New York, N. Y.**—Bd. Educ., 500 Park Ave., opened bids Aug. 11, installing heating, ventilating and temperature regulation apparatus, etc. in additions to and alterations in P. S. 58, Bronx Boro, from E. Rutzler Co., 404 East 49th St., $44,719; W. J. Olvany, 100 Charles St., $46,830; T. F. Hall, Inc., 405 Lexington Ave., $47,000.

**Engines and Generators—Rome, N. Y.**—C. J. Severance, Pres. Bd. Mgrs. State School for Mental Defectives, opened bids Aug. 7 for engines and d.c. generators, at state school, from W. H. Straut Co., Haverstraw, $14,740; Langdon & Hughes Electric Co., 233 Elizabeth St., Utica, $15,133; I. N. Beeler Co., City Bank Bldg., Syracuse, $15,260. Noted July 13.

**Broken Stone, etc.—St. George, N. Y.**—J. A. Lynch, pres. Richmond Boro, opened bids Aug. 14, furnishing and delivering (1) 1,000 cu.yd. 1½ in. broken stone of limestone 12-12, (2) 100 cu.yd. screenings of limestone 12-12, (3) 400 cu.yd. grits, from J. E. Donovan, 2205 Richmond Terrace, Port Richmond, (1) $3.60, (2) $3.60, (3) $3.25; J. Johnson Sons, 455 Bway., West New Brighton, (1) $3.48, (2) $4.80, (3) $3. Noted Aug. 10.

**Transformers, etc.—San Francisco, Cal.**—Bd. Pub. Wks. opened bids transformers, switchboards, and accessory equipment for Moccasin Creek power plant, Hetch Hetchy Project, Contr. 81, from Maloney Electric Co., Rialto Bldg., bidding No. 2 Prop. A, $6,578; Packard Electric Co., (A. S. Lindstrom), 111 New Montgomery St., bidding No. 2, Prop. A, $7,140; General Electric Co., Rialto Bldg., bidding No. 1, Prop. A, $13,429, No. 2, Prop. A, $7,941, Prop. E, $265,000, Prop. AI, No. 1, $13,105, No. 2 same Prop., $7,657, Prop. EI, $253,600; Westinghouse Electric & Mfg. Co., 1st Natl. Bank Bldg., bidding No. 1, Prop. A, $11,069 and No. 2, Prop. A, $7,485, Prop. D, $253,200, Prop. AI, No. 1, $10,300, No. 2 Prop. AI, $7,485, Prop. DI, $238,200; C. F. Henderson, Call Bldg., bidding Prop. A, No. 2, $7,090. Noted July 20.

**Transmission Line—Turlock, Cal.**—Turlock Irrigation Dist., constructing transmission line, (1) construction complete, (2) labor only, (3) towers, (4) switchboards, (5) copper wire, (6) insulators, (7) alternate for insulators, (8) aluminum wire, from H. S. Tittle, 766 Folsom St., San Francisco, (1) with (5) $153,360, with (8) $142,360, (2) $31,000; W. A. Kraner, Balboa Bldg., San Francisco, (1) with (5) $169,900, with (8) $178,200; P. C. Severin, 180 Jessie St., San Francisco, (2) $46,800; Continental Constr. Co. Los Angeles, (2) $67,000; Western Electric Co., 680 Folsom St., San Francisco, (3) $280 each; General Electric Co., Rialto Bldg., San Francisco, (4) $18,250; J. Roebling Sons, Hathorne and Folsom Sts., San Francisco, (5) $0.1725 per lb.; Aluminum Co. of America, Rialto Bldg., San Francisco, (8) $0.1904 per lb.; Baker-Joslyn Co., 199-1st St., San Francisco, (6) $1.87 each, (7) $2.53 each; Pacific States Electric Co., 575 Mission St., San Francisco, (6) $2.30 each, (5) $0.1662; Ohio Brass Co., Hobart Bldg., San Francisco, (6) $2.35 each; Pacific Coast Steel Co., Rialto Bldg., San Francisco, (3) $110 each; Westinghouse Electric Co., Rialto Bldg., San Francisco, (6) $2.47 each.

## CONTRACTS AWARDED

**Grain Elevator—Belchertown, Mass.**—Ryther & Warren, large grain elevator, to H. P. Cummings Constr. Co., Ware.

**Portland Cement—New York, N. Y.**—H. Bruckner, pres Bronx Boro, Municipal Bldg., Crotona Park, furnishing 3,500 bags portland cement, to C. J. Mallett, 2523 Glebe Ave., Bronx, $2,397. Return of bags $0.10 per bag. Noted Aug. 10.

**Lumber—Niagara Falls, N. Y.**—E. J. Fort, city mgr., 106,787 ft. white oak lumber to repair Pierce Ave. Bridge, to Haeberle Lumber Co., 1004 Cedar Ave., $6,407. Noted July 20.

**Retaining Wall—Trenton, N. J.**—Rein.-con. retaining wall along John Fitch Way from Municipal dock to Delaware River Bridge, to General Contg. & Constr. Co., 117 Emory Ave., $21,075. Noted July 27.

**Limestone Dust—Scranton, Pa.**—See "Streets and Roads."

**Mechanical Equipment—Charlotte, N. C.**—Citizens Hotel Co., for electrical, heating and plumbing work in new hotel, to Grinnell Co., Inc., 1 Liberty St., New York City, $148,000.

**Levee Work—New Orleans, La.**—Bd. State Engrs., Court Bldg., Berryman Levee, Avoyelles Parish, 180,000 cu.yd. excav., to Tensey-Cabott Constr. Co., Minden, $51,982; Cason Levee, Avoyelles Parish, 102,000 cu. yd. excav., and Crooked Bayou Levee, St. Landry Parish, 65.000 cu.yd. excav., to White, Taylor & Cason, Woodville, $26,000 and $25,398 respectively.

**Stadium—Madison, Wis.**—University of Wisconsin, concrete and steel addition to stadium, to W. F. Tubesing Co., 373 Bway., Milwaukee, $28,952. Noted June 8.

**Power Plant Equipment—Detroit, Minn.**—For 1 generating unit, steam engine driven, 300 kva. capacity, one 250 hp. water tube boiler, stokers for foregoing, to J. G. Robertson, 2542 University Ave., St. Paul, $30,665. Will receive bids until Aug. 28 for rest of light and power project incl. erection brick and concrete power house, $28,000. Noted July 27.

**Crane—St. Paul, Minn.**—For one 15 ton hand operated traveling type bridge crane for Water Dept., to Whiting Corp., Harvey, Ill., $1,555. Noted Aug. 3 under waterworks.

**Pumps—Port Arthur, Ont.**—Provincial Paper Mills Ltd., Port Arthur, 14 centrifugal pumps up to 6,000,000 gal. capacity per day, to Northern Fdry. & Machine Co., Saulte Ste. Marie. Engrs. est. $50,000.

**Pumps—Fort William, Ont.**—Fort William Paper Co., 10 centrifugal pumps, from 1000 to 5000 gal. per minute capacity, against 60-120 ft. heads, to Northern Fdry. & Machine Co., Saulte Ste. Marie. Engrs. est. $25,000.

**Car Barns — Toronto, Ont.** — Toronto Transportation Com., Yonge and Front Sts., three 1 and 2 story rein.-con., brick and steel car barns, and brick office, Eglington Ave., general contract to Wells & Gray, Confederation Life Bldg., reinforcing steel to Burlington Steel Co., 60 King St. W., structural steel to Dominion Bridge Co., Imperial Life Bldg.; plumbing and heating to Sheppard & Abbot, 119 Harbord St. Total $225,000.

# SEARCHLIGHT SECTION

## OFFICIAL PROPOSALS

*Copy:* Official Proposals reaching our New York Office by 10 A. M., Tuesday can usually be printed in the issue out Thursday.

Rate:
40 Cents a Line an Insertion

*Plans and Specifications* for inspection by distant bidders may be filed at any of the Engineering News-Record offices without charge.

THESE ADVERTISEMENTS ARE OFFICIAL NOTICES THAT BIDS ARE WANTED FROM BIDDERS EVERYWHERE.

### OFFICIAL PROPOSALS

Bids: Aug. 28.

### Paving

Waterloo, N. Y.

For paving Stark Street from William Street north to North Street, North Street from Stark Street east to Taylor Street, Center Street from North Street south to the south line of the Catholic Church property, Swift Street from Main Street north to North Street, Church Street from Main Street north to Mechanic Street, William Street from the east line of the Episcopal Church property west to the west side of the entrance to Waterloo Hospital and also from Park Street to Stark Street, Race Street from Huff Street west to west side of lane at Traphagen's Coal Yard, Fayette Street from South Street north to Race Street, Huff Street from Race Street south to South Street, Park Street from Main Street north to William Street in the Village of Waterloo, N. Y., with bituminous macadam, penetration method.

Sealed proposals for the above mentioned work, endorsed "Proposals for Paving" will be received at the office of the Board of Trustees, Waterloo, N. Y., until 12 o'clock M. of August 28th, 1922.

The following estimate of quantities is to be considered only as approximate and bidders are required to form their own judgment of the quantities and character of the work by personal examination of the specifications and drawings relating to it, or such other means as they may prefer. Bidders must not assert any misunderstanding in regard to anything relating to the work.

The Contractors shall have no claim against the Village by reason of any variation between the quantities of the approximate estimate and the quantities of the work as done, nor on account of any misunderstanding or misconception of the nature and character of the work.

The several bids will be computed, tested and canvassed by the quantities and qualities mentioned in the following estimate:

21,700 square yards Bituminous Macadam Pavement (Penetration Method).

Each bid must be made out on the forms of proposals furnished by the Board of Trustees, and must be enclosed in a sealed envelope, addressed to the Board of Trustees, Waterloo, N. Y.

The price for which bidders will agree to execute and perform each class of work to be written in ink in both words and figures in the forms of bid, and all bids will be considered informal which do not contain prices set opposite each and all of the items which are called for in printed forms for bids, or which are otherwise not in conformity with this notice. Bids that contain any omissions, erasures, alterations, additions or items not called for in the itemized "Notice to Contractors," or that contain irregularities of any kind, will be rejected as informal. No bid will be allowed to be withdrawn for any reason whatever, after it has been deposited with the Board of Trustees.

Bidders are requested to state in their bids, under oath, their names and places of residence, the names of all persons interested with them in said bids, also that the bid is made without any connection with any person making another bid for the same contract, and that the bid is in all respects fair and without collusion or fraud.

Contractors will be paid monthly, approximate estimates, 90 per cent, of the amount due for work at that time done.

The person or persons whose bid shall be accepted, will be required to attend at the office of the Board of Trustees with the sureties offered by him or them, and execute the contract and bond within ten days from the date of the service of a notice to that effect, delivered to him in person or mailed to the address given in the bid. In case of failure or neglect to do so he or they will be deemed to have abandoned the contract.

A certified check payable to the order of the Village Treasurer of the Village of Waterloo, N. Y., will be required in the amount of $1,500.00 (Fifteen Hundred Dollars) to accompany each bid.

All deposits except that of the bidder whose bid shall have been accepted, will be returned to the person or persons making the same, within three days after the contract is awarded. If the successful bidder whose bid shall have been accepted, shall refuse or neglect to execute the contract within ten days after the notice that it has been awarded to him or them the amount of the deposit by him or them will be forfeited to and be retained by the Village of Waterloo, N. Y., as liquidated damages for such neglect or refusal; but if he or they shall execute the contract and bond within the time aforesaid, the amount of his or their deposit will be returned to him or them.

A bond in the sum of at least 50 per cent. of the contract price conditioned for the faithful performance of all parts of the contract with sureties to be approved by the Board of Trustees will be required.

The Board of Trustees reserves the right to reject all bids not deemed for the best interest of the Village and adjacent and contiguous property owners.

Plans may be seen at the office of the Board of Trustees, and specifications, forms of proposal, contract, etc., obtained from the Village Clerk.

The Contractor is required to furnish the Engineer, previous to the time fixed for receiving bids, samples of the bituminous material proposed to be used.

By order of the Board of Trustees of the Village of Waterloo, N. Y.

ADELBERT R. MOORE,
Village Clerk.

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Bids: Sept. 7.

### Concrete Bridge Construction

New Braunfels, Texas.

Sealed proposals for constructing a reinforced concrete highway bridge across the Comal River on San Antonio Street in the City of New Braunfels, Texas, and addressed to the Hon. F. G. Blumberg, Mayor, will be received at the office of the City Clerk, until 3 p.m., Thursday, September 7th, 1922.

The structure consists of a 20 ft. wide roadway with two 5 ft. sidewalks 410 ft. long. The roadway is 43 ft. high above river level, and is carried by five arch spans of two ribs each and by two girder spans of 30 ft. each. The foundation conditions are unusually simple.

The Contractor is required to maintain traffic over existing bridge necessitating the moving of one timber approach trestle 142 ft. long. Five car siding space is available for use of Contractors within one block of west end of bridge. Water will be furnished free by the City.

Instructions, proposal blanks, specifications and detailed plans may be seen at the office of A. D. Nuhn, City Clerk, New Braunfels, Texas, and may be obtained from the Terrell Bartlett Engineers, Calcasieu Bldg., San Antonio, Texas, upon payment of $15.00, which will be refunded only to bona-fide bidders.

Proposals must be accompanied by a certified or cashier's check in the sum of not less than 5% of the amount bid. Bidders must fulfill conditions specified in the "Instruction to Bidders." The City reserves the right to reject any or all bids.

F. G. BLUMBERG, Mayor.

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Bids: Aug. 21.

### Reinforced Concrete Paving

Princeton, N. J.

Notice is hereby given that sealed bids will be received by Princeton Township Committee for the construction of a reinforced concrete pavement in the Township of Princeton in the County of Mercer, with a cement concrete surface upon an old macadam foundation, estimated amount of concrete surface pavement reuired is 5,327 square yards; and opened and read in public at the office of the Princeton Township Committee, Branch Building, Princeton, N. J., on Aug. 21, at seven p.m., Standard Time.

Drawings, specifications and forms of bid, contract and bond for the proposed work, prepared by Sincerbeaux and Moore, Engineers, and approved by the State Highway Commission, have been filed in the office of the said Engineers at 705 American Mechanic Building, Trenton, N. J., and Asbury Park Trust Co. Bldg., Asbury Park, N. J., and First National Bank Bldg., Princeton, N. J., and of said State Highway Commission, Trenton, N. J., and may be inspected by prospective bidders during business hours. Bidders will be furnished with a copy of the specifications and blue prints of the drawings by the Engineer on proper notice* and payment of cost of preparation. Bids must be made on the standard proposal forms in the manner designated therein and required by the specifications, must be enclosed in sealed envelopes, bearing the name and address of bidder and name of road on the outside, addressed to Princeton Township Committee and must be accompanied by a certificate of surety and a certified check for not less than ten (10) per cent of the amount bid, provided said check shall not be less than $500.00 nor more than $20,000.00 and be delivered at the place and on the hour above named. The standard proposal form is attached to the specifications, copies of which will be furnished on application to Engineer.

By order of Princeton Township Committee.

ELLWOOD J. LAWRENCE,
Chairman.
MARTIN CLAUSEN,
Clerk.

*$10

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Bids: Aug. 25.

### Memorial Hospital

Butler, Pa.

Contractors who expect to submit proposals for the construction of the Butler County Memorial Hospital to be erected at Butler, Pa., and for which requests for proposals will be advertised shortly, are requested to send their names and addresses on or before noon of Friday, August 25, 1922, to the Butler County Memorial Hospital Committee, c/o Community Building, Butler, Pa., with the following information:

a. A list of buildings of similar character they have constructed within the past ten years.

b. Testimonials from the owners, committees in charge, or architects of such building that the work was completed satisfactorily by the contractor, or if a firm or corporation, by the present officers of such firm or corporation.

c. Any further information that the contractor may desire to furnish.

The committee in charge of said project desires this information in advance of the time actual proposals or bids are requested or submitted for the purpose of investigation and to the end that when bids are received the contract may be let promptly.

BUTLER COUNTY MEMORIAL HOSPITAL BUILDING COMMITTEE.

## OFFICIAL PROPOSALS

Bids: Sept. 7.

### Sanitary Sewerage System and Sewage Disposal Plant

Spring Valley, N. Y.

Sealed proposals will be received by the Board of Trustees of the Village of Spring Valley, Rockland County, New York, at the Village Offices, in the Village of Spring Valley, on the 7th day of September, 1922, at the hour of 8 P.M., Daylight Saving Time, for the construction of a sanitary sewerage system and sewage disposal plant. The work will in general consist of about

11.2 miles of 8-inch vitrified pipe sewers. 0 to 20 feet deep.
0.66 miles of 10-inch vitrified pipe sewers, 0 to 18 feet deep.
0.69 miles of 12-inch vitrified pipe sewers, 0 to 24 feet deep.
0.19 miles of 8-inch cast iron pipe sewers, 0 to 12 feet deep.
0.01 miles of 10-inch cast iron pipe sewers, 6 to 10 feet deep.
257 manholes, 0 to 22 feet deep.
Two small sewage lift stations.
One sewage disposal plant.

And various appurtenances of and extensions to the above-mentioned items.

Plans and specifications are on file and may be seen at the office of the Village Clerk, Spring Valley, N. Y., or at the office of the engineer, Waldo S. Coulter, 114 Liberty Street, New York, N. Y. Complete sets of information for bidders, form of contract, specifications and plans may be obtained from the engineer upon a deposit of $15, of which $7.50 will be refunded upon return of same in good condition by October 1, 1922.

Each bid must be accompanied by a certified check for Five Thousand Dollars ($5,000) payable unconditionally to the Treasurer of the Village of Spring Valley, which check must be presented with the bid as a guarantee that the bidder will within ten (10) days after receiving the award enter into and execute a contract for the performance of the work to be done under said contract. Said bid must be in a sealed envelope and marked "Proposal for a Sewerage System and Disposal Plant."

The successful bidder will also be required to furnish a Surety Company bond to the Village of Spring Valley in the amount of Twenty-five Thousand Dollars ($25,000) for the faithful performance of the work to be done under said contract, said bond to be approved by the Village Attorney.

In case of failure to execute the contract and furnish the required Surety Company bond within ten (10) days after due notice that the contract has been awarded to him, the successful bidder shall forfeit his deposit to the Village of Spring Valley as liquidated damages.

The right to reject any or all bids is reserved by the Board of Trustees. All of said work must be completed on or before December 7, 1923.

BOARD OF TRUSTEES OF THE VILLAGE OF SPRING VALLEY,
THEODORE B. BOHR,
President.
JOHN S. VAN ORDEN,
Village Clerk.

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Bids: Sept. 5.

### High School

Smyrna, Del.

Public notice is hereby given that the Board of Education, of the Smyrna Special School District and Delaware School Auxiliary Assocaition will meet at the office of the Delaware School Auxiliary Association, duPont Building, Wilmington, Delaware, on Sept. 5th, 1922, at the hour of 11 o'clock, Daylight Saving Time, and then and there will receive and open sealed proposals for furnishing labor and material to erect and complete a new High School Building for the Town of Smyrna, Kent County, State of Delaware.

The work for which bids or proposals are hereby invited will consist of semi-fireproof building constructed of brick and concrete walls, with timber and reinforced concrete floor and roof construction. The size of building is approximately 150 ft. x 80 ft. The building will be one and two stories high and contain about 14 Instruction Rooms and Auditorium.

Bids will be received for the erection complete of the entire building under one contract, or for the following divisions separately:

1—For the General Construction, which includes all masonry, carpentry, steel and iron, roofing, painting, and all work kindred thereto.
2—For Plumbing and Gas Fitting, and all work kindred thereto.
3—For Heating and Ventilating and all work kindred thereto.
4—For Electrical Work and all work kindred thereto.

The Board of Education and Delaware School Auxiliary Association reserve the right to accept or reject any or all proposals and to waive informalities at their discretion.

All bids must be in sealed envelopes addressed to the Board of Education of the Smyrna Special School District, care of Delaware School Auxiliary Association, du Pont Building, Wilmington, Delaware, endorsed "Proposals for (Naming the branch of work covered by bid)," with the name of the bidder.

No bid will be considered unless accompanied by a certified check to the order of the Board of Education of the Smyrna Special School District to the amount of 2% of the amount of the bid or a bid bond of like amount, binding the bidder to execute the contract if awarded him. The terms of the proposal with surety required are fixed by the specifications.

Copies of the plans, specifications will be on file in the office of the Delaware School Auxiliary Association, du Pont Building, Wilmington, Delaware, and at the Smyrna High School, Smyrna, Delaware, for the purpose of examination and estimating.

There will be a limited number of copies of the plans and specifications which will be loaned to the prospective bidders on deposit of a certified check to the order of Delaware School Auxiliary Association in the sum of $25.00. If plans and specifications are returned on or before the submission of estimates, the check will be returned, but should the plans and specifications be not returned, the deposit may become forfeited. Applications for the plans and specifications should be made to the Delaware School of Auxiliary Association, Room 8124 duPont Building, Wilmington, Delaware.

THE BOARD OF EDUCATION OF THE SMYRNA SPECIAL SCHOOL DISTRICT, SMYRNA, DEL.
W. O. HOFFECKER, President.
DELAWARE SCHOOL AUXILIARY ASSOCIATION.
DR. JOS. H. ODELL, President.

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Bids: Aug. 25.

### Construction of Main Sewer to Shorewood and Whitefish Bay.

Milwaukee, Wis.

Published by authority of the Metropolitan Sewerage Commission of the County of Milwaukee.

Sealed proposals for the construction of extensions to the Intercepting Sewer System of the County of Milwaukee, Wisconsin, will be received by the Metropolitan Sewerage Commission at its offices, 508 Market Street, Milwaukee, Wisconsin, until 2:00 o'clock p.m., August 25th, 1922, at which time and place the proposals will be publicly opened and read.

The work to be done embraces the building of approximately the following work:

484 lineal feet of 18 inch Siphon.
4,872 lineal feet of 42 inch Concrete Sewer.

Together with all manholes and other appurtenances.

The time allowed for completion of this contract shall be nine (9) months from the date of the engineer's notice to begin work.

Each proposal submitted must be accompanied by a cash deposit of, or, in lieu thereof, by a certified check drawn upon a National or State Bank or Trust Company, and to the order of the "Metropolitan Sewerage Commission of the County of Milwaukee" to the amount of Twenty five Hundred ($2,500.00) Dollars.

Specifications and blank forms of proposals can be obtained and detailed plans examined at the office of the Metropolitan Sewerage Commission, 508 Market Street, Milwaukee, Wis., and a full set of plans will be sent to any contractor upon receipt of Five ($5.00) Dollars. This sum will be returned upon surrender of the plans in good condition, if returned within thirty days after the award of the contract.

JOHN H. FOWLES,
Secretary.

Bids: Sept. 5.

### Two Steel Swing Drawbridges

Fort Lauderdale, Fla.

Sealed proposals for the construction of two steel highway swing drawbridges will be received by the Board of County Commissioners of Broward County, Florida, until 11:00 A.M., September 5, A. D. 1922 and then publicly opened.

Bridge No. 1, is proposed across the Florida Intra-Coastal Canal on the line of the Pompano Beach Road, near Pompano, Florida.

Bridge No. 2 is proposed across the same waterway on the line of the Dania Beach Road, near Dania, Florida.

Specifications for materials and general requirements for superstructures, location and profile of the crossings, and detailed specifications for the abutments, are on file and may be examined at the office of the Clerk of the Board. A complete set of said specifications for both bridges will be furnished prospective bidders by the Engineer, for $5.00 to cover cost of preparation. This amount will not be returned.

Bidders shall submit with their proposal general plans, stress sheets and typical details of the superstructure, and detail of the center piers of the bridges covered by their proposal, subject to the requirements of the specifications furnished by the Engineer.

All bids shall be submitted upon blank forms which may be obtained free of charge from the Engineer.

Each proposal shall be accompanied by a certified check for $500.00 on each bridge, payable to the Chairman of the Board of County Commissioners, as evidence of good faith, and check of the successful bidder will be retained by the said Board as liquidated damages for the cost and expense incurred should the said bidder fail to enter into contract for the work with satisfactory bond as specified, within fifteen days after the acceptance of his proposal.

Any contract awarded under the terms of this advertisement will be subject to granting of permit by the War Department of the United States.

The right is reserved to separate or combine bids; to waive informalities in bids; and to reject any and all bids.

BOARD OF COUNTY COMMISSIONERS OF BROWARD COUNTY, FLORIDA.
H. G. WHEELER, Chairman.
FRANK A. BRYAN, Clerk.
Dated at Fort Lauderdale, Florida, this tenth day of August, A. D. 1922.
H. C. DAVIS, Engineer.

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Bids: Aug. 23.

### Improvement of Second Street

Henderson, Ky.

Sealed proposals for improvement of Second Street will be received by the Commissioner of Public Works and Property of Henderson, Kentucky, until 12 o'clock noon, standard time, on the 23rd day of August, 1922, for the improvement of Second Street of the City of Henderson, Henderson County, Kentucky, from the east margin of Water Street to the west line of the right-of-way of the Illinois Central Railroad Company, a distance of 5,115 feet to consist of paved carriageways, 18 feet in width on each side of the street, a curb along the center edge of these carriageways and at street intersections, catch basins with connections and inlets at intersections. Each proposal must contain the full name of every person or company interested in the same and must be accompanied by cash or a certified check made payable to the order of the City of Henderson, Kentucky, for a sum equal to five (5) per cent of the total amount of the bid, as a guarantee that contract will be entered into and proposals must be made on the complete work.

Requirements for bidding and instructions to bidders, form of proposal, contract, specifications, form of bond and plans may be obtained from the Commissioner of Public Works and Property of the City of Henderson or at the office of the engineers, Pearse Greeley & Hansen, 39 West Adams Street, Chicago, Illinois, upon receipt of fifteen dollars ($15.00) which sum so deposited will be refunded if said plans, specifications, etc., are returned in good condition within thrty days (30) after the opening of bids.

CITY COMMISSION OF HENDERSON, KENTUCKY,
By CLAY F. HALL.
Mayor.

## OFFICIAL PROPOSALS

Bids: Aug. 30.

### Highway and Street Paving

Little Rock, Ark.

Sealed bids will be received until ten a.m. of Wednesday August 30th, 1922 at the auditorium of the Board of Commerce, Little Rock, Arkansas, by the Board of Commissioners of Pulaski Road Improvement District Number Ten, for the construction of approximately forty miles of streets and roads. The principal items of construction are as follows:

| | |
|---|---|
| 422,000 | sq.yd. Asphalt Surface. |
| 244,000 | sq.yd. Five inch Concrete Base. |
| 38,000 | tons Broken Stone, additional macadam foundation. |
| 3,100 | cu.yd. Concrete in culverts and bridges. |
| 202,000 | cu.yd. Excavation. |
| 34,000 | lin.ft. Concrete Curb. |
| 185,000 | lin.ft. Concrete Road Header. |
| 79,000 | Roadway ft. Concrete Road Header. |

All proposals or bids must be accompanied by either a certified check drawn on a responsible bank or trust company, or, by a bidders bond made by a surety company authorized to do business in the State of Arkansas. The certified check or bidders bond must be payable to H. S. Turner, Secretary of the Board of Commissioners of Pulaski Road Improvement District Number Ten, for a sum not less than five per cent of the aggregate of the proposals made.

Plans and specifications, as well as additional information, may be secured from the Engineer.

The successful bidder will be required to furnish satisfactory surety construction bond in a sum equaling the amount of the contracts awarded him.

The right is reserved to accept or reject any and all proposals, and to waive informalities.

ROY L. THOMPSON,
Chairman.

H. S .TURNER,
Secretary,
216 Gazette Bldg.,
Little Rock, Ark.
D. A. MACCREA,
Chief Engineer,
215 Gazette Bldg.,
Little Rock, Ark.

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Bids: Nov. 4.

### Tenders for Plant

Melbourne, Australia.

Tenders are hereby invited for the supply, delivery, etc., of the following for the Morwell Power Scheme.

Copies of Tender Form and Specification will be available upon application to:

Office of the Bureau of Foreign & Domestic Commerce,
United States Department of Commerce,
First National Bank Building,
CHICAGO.
and
Office of the Bureau of Foreign & Domestic Commerce,
United States Department of Commerce,
734 Customs House,
NEW YORK CITY.

SPECIFICATION NO. 293. TRANSFORMERS, INDUCTION REGULATORS AND SWITCH-GEAR.

CHARGE:—£2: 2: 0 for the first 3 copies of Tender Form, Conditions of Contract, and specification complete. These charges will be returned on receipt of a bona-fide tender. A fourth copy and any further copies will be supplied for the sum of 10/6 each.

PRELIMINARY DEPOSIT: A Preliminary Deposit of £100: 0: 0 is to be lodged with Tender.

The Specification may be inspected at the above mentioned offices, and also at the office of:

The Commissioner for Australia in U. S. A.,
Room 3012,
61 Broadway,
NEW YORK.

The Commission does not bind itself to accept the lowest or any tender.

Tenders on prescribed form, properly endorsed and addressed, must be delivered to the undersigned in Melbourne not later than NOON, 4th November, 1922.

R. LIDDELOW,
Secretary,
STATE ELECTRICITY COMMISSION OF VICTORIA,
22-32 William Street,
MELBOURNE,
VICTORIA,
AUSTRALIA.

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## OFFICIAL PROPOSALS

Bids: Aug. 30.

### Concrete Arch and Girder Bridge

Richland (Pulaski), N. Y.

Sealed proposals will be received at the office of the Town Clerk of the Town of Richland, in the Village of Pulaski, Oswego County, New York, until Wednesday, the 30th day of August, 1922, at 1:00 P.M., for the building of a reinforced concrete arch and girder bridge across the Salmon River in the said Town.

Plans and specifications may be seen at the office of

1. Mr. C. A. Jewell, Town Clerk, Pulaski, N. Y.
2. Concrete-Steel Engineering Co., Park Row Bldg., New York.

Copies of the plans and specifications, including form of proposal, may be obtained from the Concrete-Steel Engineering Co. upon making a deposit of $20.00, which will be refunded upon the return of the plans and specifications in good order.

Each proposal must be accompanied by an unconditional certified check on a national bank for 5% of the contract price, made payable to the order of the "Supervisor of the Town of Richland" as evidence of good faith, and to be forfeited to the Town as liquidated damages in case of failure on the part of the bidder to enter into contract for the execution of the work and to furnish a satisfactory surety bond as hereinafter stipulated. Bidders' certified checks will be returned after consideration of the bids, and the check of the successful bidder will be returned as soon as the contract is signed.

The successful bidder will be required to furnish a bond acceptable to the Town of Richland in a sum equal to 50% of the amount of the contract.

The blank form of proposal attached to the specifications shall be used in making out the bid.

The party or parties to whom the contract may be awarded will be required to execute the contract with surety within ten days from the date of service of notice to that effect, and in case of failure or neglect to do so, he or they will be considered as having abandoned it.

Envelopes containing proposal must have endorsed thereon:

"Proposal for Pulaski Bridge."

The right is reserved by the Town to accept any proposal, or to reject any or all proposals.

TOWN OF RICHLAND.
By JOHN BUSH,
Town Superintendent.

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Bids: Aug. 29.

### Drainage and Ditch Improvement Re-Advertised

Wooster, Ohio.

Notice is hereby given that sealed proposals for the construction of the JOINT WAYNE-HOLMES COUNTY DITCH IMPROVEMENT will be received up until twelve o'clock noon, Eastern Standard Time, on Tuesday, Aug. 29, 1922, at the office of the Secretary of the Joint Board of County Commissioners of Wayne and Holmes Counties at the Court House at Wooster, Ohio.

The work to be done consists of the draining and dredging of Killbuck Creek in Wayne and Holmes Counties, in all, the distance of One Hundred and Fifty-Six Thousand (156,000) feet.

The yardage of earth to be moved is estimated at about 1,780,000 cubic yards, consisting principally of dipper dredge work. The date of completion will be eighteen months from the date of awarding of contract.

A certified check in the amount of $10,000.00 payable to the Joint Board of County Commissioners of Wayne and Holmes Counties, Ohio, must accompany each proposal. Checks of unsuccessful bidders will be returned within ten days of the awarding of the contract.

The said board reserves the right to reject any or all bids. Plans, specifications and proposals are on file at the Secretary's office at the Court House, Wooster, Ohio, or same will be mailed upon application when same is accompanied by a deposit of $20.00, which will be refunded if plans are returned in good condition.

By order of the Joint Board of County Commissioners of Wayne and Holmes Counties.

CHAS. F. SCHOPF,
Secretary.

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## OFFICIAL PROPOSALS

Bids: Sept. 6.

### Canal Water Power Development

Albany, N. Y.

Sealed proposals will be received by the undersigned at his office in the Capitol at Albany, N. Y., until twelve o'clock noon of Wednesday, September 6th, 1922, at which place and hour they will be publicly opened and read, for the development of canal water power, pursuant to the provisions of Chapter 532 of the Laws of 1922, as follows:

A-3
CRESCENT POWER HOUSE,
COHOES, N. Y.

For constructing a power house and work incidental thereto, at Crescent Dam, Cohoes, N. Y.

Sheets 1 to 10 inclusive.

Plans may be seen and detailed specifications, engineer's estimate of quantity, proposal blanks forms of contract and bonds required, and other information for proposers, may be had at the office of the Superintendent of Public Works at Albany, N. Y., at the office of the Assistant Superintendent of Public Works at Albany, N. Y., at the office of the Assistant Superintendent of Public Works for the Eastern Division, Wedgeway building, Schenectady, N. Y.; at the office of the Assistant Superintendent of Public Works for the Middle Division at Syracuse, N. Y.; at the office of the Assistant Superintendent of Public Works for the Western Division, at Rochester, N. Y.; at the offices of the Superintendent of Public Works, Erie Basin Terminal, Buffalo, N. Y., and Terminal Warehouse, Pier 6, East River, New York City.

Blueprint copies of plans will be furnished by the State Engineer and Surveyor upon the receipt at his office in the Telephone Building, Albany, N. Y., of payment at the rate of fifteen cents (15c) per sheet. Refund will not be made for any blueprints which may be returned.

Monthly estimates will be paid of ninety per centum (90 per cent) of the work done at the contract price. Every proposal for said work must be accompanied by a money deposit in the form of a draft or certified check upon some good banking institution in the city of Albany or New York, issued by a national or state bank in good credit within the state and payable at sight to the Superintendent of Public Works for five per centum (5 per cent) of the amount of the proposal.

The person whose proposal shall be accepted will be required to execute a contract and furnish bonds within ten days from the date of notice of award delivered to him or them in person or mailed to the address given in the proposal.

Upon execution of the contract and approval of bonds, the certified check or draft will be returned to the proposer unless the same shall have been presented for collection prior to such time, in which case the amount of the deposit will be refunded by the Superintendent of Public Works.

The deposit of bidders other than the one to whom the award of contract shall be made will be returned immediately after the award has been made.

The bond required for the faithful performance of the contract shall be in such sum as shall be fixed by the Superintendent of Public Works, which sum shall not be less than twenty per centum (20 per cent) of the estimated cost of the work, according to the contract price, and an additional bond known as the labor bond, in the sum of ten per centum (10 per cent) of the amount of the estimated cost of the work according to the contract price, will be required as security that the contractor will pay in full at least once in each month all laborers employed by him upon the work specified to be done in the contract.

In the event that more than one surety company is offered as surety on said bonds co-insurance only will be accepted.

Each proposal must be addressed to the Superintendent of Public Works, Albany, N. Y., and must be endorsed on the envelope with the name of the construction for which the proposal is made.

Award, if made, will be made to the person or persons whose proposal shall be lowest in cost to the State for doing the work, and which shall comply with all provisions required to render it formal. Before any award shall be made the lowest bidder will be required to satisfy the Superintendent of Public Works of his ability to provde suitable equipment and materials for the proper performance of the work.

The right is reserved to reject all proposals and readvertise and award the contract in the regular manner, if, in the judgment of the undersigned, the interests of the state will be enhanced thereby.

CHARLES L. CADLE.
Superintendent of Public Works.

## OFFICIAL PROPOSALS

Bids: Aug. 29.

### State Road Work

Baltimore, Md.

Sealed proposals for building eight sections of State Highway, as follows:

ALLEGHENY COUNTY—Cont. A-21—One section of state highway from Cumberland toward Old Town for a distance of 3.0 miles—(concrete).

FREDERICK COUNTY—Cont. F-57—One section of state highway from Middletown toward Burkittsville, a distance of 4.0 miles—(concrete).

HOWARD COUNTY——Cont. HO-27—One section of state highway from Laurel toward Scaggsville for a distance of 2.0 miles—(Gravel).

HOWARD COUNTY—Cont. HO-30—One section of state highway from Wash. Blvd. near Savage toward Simpsonville, a distance of 2.0 miles—(Gravel).

ANNE ARUNDEL COUNTY—Cont. AA-25—One section of state highway from Eastport toward Bay Ridge for a distance of 1.0 miles—(Concrete).

CALVERT COUNTY—Cont. C-13—One section of state highway from Yoes Corner toward Broomes Island, a distance of 2.5 miles—(Gravel).

CHARLES COUNTY—Cont. CH-21—One section of state highway from Nanjemoy to Riverside, a distance of 3.9 miles—(Gravel).

ST. MARYS COUNTY—Cont. SM-20—One section of state highway from Chingville to Valley Lee, a distance of 4.0 miles—(Gravel).

Will be received by the State Roads Commission, at its offices, 601 Garrett Building, Baltimore, Maryland, until 12 m. on the 29th day of August, 1922, at which time and place they will be publicly opened and read.

Bids must be made upon the blank proposal form which, with specifications and plans will be furnished by the Commission upon application and cash payment of $1.00, as hereafter no charges will be permitted.

No bids will be received unless accompanied by a certified check for the sum of Five Hundred ($500) Dollars, payable to the State Roads Commission.

The successful bidder will be required to give bond, and comply with the Acts of the General Assembly of Maryland, respecting contracts.

The Commission reserves the right to reject any and all bids.

By order of the State Roads Commission this 10th day of August, 1922.

JOHN N. MACKALL, Chairman.
L. H. STEUART, Secretary.

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Bids: Aug. 29.

### Highway Work

Albany, N. Y.

Sealed proposals will be received by the undersigned at their office, No. 55 Lancaster Street, Albany, N. Y., at one o'clock P.M., advanced standard time, which is twelve o'clock noon eastern standard time on TUESDAY, the 29th day of AUGUST, 1922, for the improvement of highways in the following counties:

| | |
|---|---|
| ERIE | (one highway:2.56) |
| FRANKLIN | (one highway:6.45) |
| HAMILTON | (one highway:3.57) |
| LEWIS | (one highway:6.47) |
| ORANGE | (one highway:4.06) |
| SARATOGA | (one highway:5.27) |
| WASHINGTON | (one highway:6.48) |
| WYOMING | (one highway:0.59) |

ALSO FOR THE REPAIR OF THE FOLLOWING:

(COMPLETION)

| | |
|---|---|
| (LIVINGSTON) | (one contract:2.91) |
| MADISON | (one contract:2.36) |
| OSWEGO | (one contract:2.00) |
| RENSSELAER | (one contract:1.14) |
| STUBEN | (one contract:2.50) |

Maps, plans, specifications and estimates may be seen and proposals forms obtained at the office of the Commission in Albany, N. Y., and also at the office of the division engineers in whose division the roads are to be improved or repaired. The addresses of the division engineers and the counties in which they are in charge will be furnished upon request.

The especial attention of bidders is called to "GENERAL INFORMATION FOR BIDDERS" in the itemized proposal, specifications and contract agreement.

HERBERT S. SISSON,
Commissioner.
J. C. FINCH,
Secretary.

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Bids: Sept. 8.

### Highway Route No. 16
### Section No. 4

Somerville, N. J.

NOTICE IS HEREBY GIVEN that sealed bids will be received by the County of Somerset for the following: The construction of State Highway Route No. 16, Section No. 4, from Pluckamin to Somerville, consisting of 67,749 Square Yards "Surface Type C," one course Reinforced Cement Concrete Pavement, with Drains and Appurtenances.

Work is to be performed under County Reimbursement Act, Chapter 183, laws of 1918, and amended by Chapter 317, laws of 1920.

Bids will be received at the Court House at Somerville, on

FRIDAY, SEPTEMBER 8th, 1922,

at 11:00 a.m., Daylight Saving Time (10 A.M. Eastern Standard Time).

Drawings, specifications and form of contract and bond for the proposed work are on file in the office of H. C. Van Emburgh, County Engineer, at the Court House, Somerville, and in the office of the State Highway Department, Trenton, New Jersey, and may be inspected by prospective bidders. Plans will be furnished on deposit of ten dollars ($10.00) upon application to H. C. Van Emburgh, County Engineer. Bids must be made on the standard proposal forms in the manner designated therein and as required by the specifications, enclosed in sealed envelopes, addressed to the Board of Chosen Freeholders of the County of Somerset, and bearing the name and address of the bidder and the name and section of the route on the outside. Bids must be accompanied by a certified check drawn to the order of Edwin Garretson, County Treasurer, for not less than ten per cent (10 per cent) of amount of the bid, provided that said certified check shall not be less than $500.00 nor more than $20,000.00 and be delivered at the above place on or before the hour named. Copies of the standard proposal form will be furnished on application to H. C. Van Emburgh, County Engineer.

Each bidder must accompany his bid with a certificate from a surety company duly authorized to do business in this State, stating that such surety company will provide said bidder with a bond in such sum as is required in and in accordance with the provisions of said specifications, conditioned for the faithful performance of the provisions of the contract and specifications. Each bidder must also accompany his bid with a statement of equipment properly filled out.

By order of a resolution of the Board of Chosen Freeholders of the County of Somerset, passed at a meeting held on Friday, August 4, 1922.

WM. S. WOODRUFF,
Clerk.

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Bids: Aug. 28.

### County Road Letting

Waukegan, Ill.

Notice is hereby given that sealed proposals will be received at the office of the undersigned, at the Court House, Waukegan, Illinois, until 1:30 o'clock p.m., (Standard Time), August 28th, 1922, by the Road and Bridge Committee, for the improvement of Section X-15d (Grand Avenue, from Gurnee Westerly to the Lake Villa Road pavement) with a Portland cement concrete roadway; earth shoulders; culverts; drainage, etc.

Length of pavement—4.742 miles.

50,211 square yards of pavement.

Certified check for five per cent of amount of proposal, payable to Roy W. Bracher, County Treasurer, shall accompany each bid.

Right is reserved to reject any or all bids.

Dated at Waukegan, Illinois, this 10th day of August, A. D. 1922.

CHAS. E. RUSSELL,
Co. Supt. of Highways.

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### Sewer Contract to Sublet

Locust Valley, N. Y.

Will let sub-contracts for 2½ miles of sewers located 25 miles out of New York. Box 242, Locust Valley, L. I., N. Y.

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Bids: Sept. 1.

### Highway Work

Somerville, N. J.

Notice is hereby given that sealed bids will be received by the County of Somerset for the following: The construction of State Highway Route No. 9, Section 7A, from Grove Street, through East Main Street, North Gaston Avenue and Union Avenue to the easterly borough line of Somerville, consisting of 12,450 sq.yd. of "Surface Type C" one course reinforced cement concrete pavement with intersections, drains and appurtenances.

Work is to be performed under County Reimbursement Act, Chapter 183, Laws of 1918, and amended by Chapter 317, Laws of 1920.

Bids will be received at the Court House at Somerville on Friday, Sept. 1st, 1922, at 10.30 a.m., Daylight Saving Time, (Eastern Standard Time, 9.30 a.m.).

Drawings, specifications and form of contract and bond for the proposed work are on file in the office of H. C. Van Emburgh, County Engineer, at Court House, Somerville, and in the office of the State Highway Department, Trenton, New Jersey, and may be inspected by prospective bidders. Plans will be furnished on deposit of ten dollars ($10.00) upon application to H. C. Van Emburgh, County Engineer. Bids must be made on the standard proposal forms in the manner designated therein and as required by the specifications, enclosed in sealed envelopes, addressed to the Board of Chosen Freeholders of the County of Somerset and bearing the name and address of the bidder and the name and section of the route on the outside. Bid must be accompanied by a certified check drawn to the order of Edwin Garretson, County Treasurer, for not less than ten per cent (10 per cent) of amount of the bid, provided that said certified check shall not be less than $500.00 nor more than $20,000.00, and be delivered at the above place on or before the hour named. Copies of the standard proposal form will be furnished on application to H. C. Van Emburgh, County Engineer.

Each bidder must accompany his bid with a certificate from a surety company duly authorized to do business in this State, stating that such surety company will provide said bidder with a bond in such sum as is required in and in accordance with the provisions of said specifications, conditioned for the faithful performance of the provisions of the contract and specifications. Each bidder must also accompany his bid with a statement of equipment properly filled out.

By order of a resolution of the Board of Chosen Freeholders of the County of Somerset passed at a meeting held on Friday, August 4th, 1922.

WM. S. WOODRUFF, Clerk.

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Bids: Sept. 5.

### Storm Sewer

Plainfield, N. J.

Bids will be received by the Common Council of the City of Plainfield, N. J., at the City Hall on Tuesday, September 5, 1922, at 8:30 p.m. (daylight saving time) for constructing about 1,000 lin.ft. of 7 ft. — 0 in. x 2 ft. — 5 in. reinforced concrete storm sewer and appurtenances.

Amount of certified check, $1,000.00.

Amount of surety company bond, 100% of contract price.

Common Council reserves the right to reject any or all bids or to waive defects in bids.

Plans and specifications may be obtained from City Engineer.

ALEXANDER W. VARS,
City Engineer.

Dated August 17, 1922.

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Bids: Oct. 10.

### Steam Turbine and Accessories

New Orleans, La.

Sealed proposals will be received by the Sewerage and Water Board of New Orleans up to 12 o'clock, noon, Tuesday, October 10th, 1922, for furnishing one 6,000 kw. STEAM turbine and accessories.

Specifications and blank forms of proposals may be obtained at Room 303, No. 526 Carondelet Street, New Orleans.

The right is reserved to reject any or all bids.

A. G. MOFFAT,
Secretary.
GEO. G. EARL,
General Superintendent.
Aug. 10th, 1922.

## OFFICIAL PROPOSALS

Bids: Aug. 31.

### Sewage Treatment Works
### Contract A

Marion, Ohio

Sealed proposals will be received at the office of the Director of Public Service in the City Hall, Marion, Ohio, until 12 o'clock noon (Official Marion Time), August 31st, 1922, and then publicly opened and read, for the construction of Sewage Treatment Works, Contract A.

The work contemplated comprises the construction of grit chambers, two-story settling tanks, pumping station, dosing tanks, trickling filters, final settling tanks, sludge-drying beds, buildings and appurtenances. The following quantities give a general idea of the amount and character of the work to be done:

| | |
|---|---|
| Excavation ................. | 46,000 cu.yd. |
| Concrete ................... | 8,750 cu.yd. |
| Steel Reinforcement ........ | 250 tons |
| C. I. Piping ............... | 225 tons |
| Stone for Trickling Filters.. | 22,500 cu.yd. |
| Buildings .................. | 50,000 cu.ft. |

Copies of plans and specifications and blank proposals may be obtained at the office of the Director of Public Service, City Hall, Marion, Ohio, or at the office of George B. Gascoigne, 648 Leader-News Building, Cleveland, Ohio, after August 16th, 1922. A deposit of Twenty Dollars ($20.00) will be required for each set of plans and specifications taken from the above offices. If a bid is submitted this deposit will be refunded upon the return of said plans and specifications in good condition. Similar deposits will be required for additional sets of plans and specifications taken from the above offices, there being no refund for their return. All checks for said plans and specifications shall be made payable to the City of Marion.

The proposals shall contain the full name and address of the party or parties making the same and all persons interested therein, and shall be accompanied by a proposal bond signed by a surety company authorized to do business in the State of Ohio or by a certified check on a solvent bank located in Marion for Ten Thousand Dollars ($10,000.00) made payable to the City of Marion, as surety that if the bid be accepted a contract will be entered into and the performance of it properly secured.

No proposal will be entertained unless made on the blanks furnished by the Director of Public Service and delivered at the office of the Director of Public Service in the City Hall, Marion, Ohio, previous to 12 o'clock noon (Official Marion Time) on the day specified.

The City, through its Director of Public Service, reserves the right to reject any or all bids, to waive any informalities in the bids received, and to accept any bid which is deemed most favorable to the City of Marion, Ohio.

THE CITY OF MARION, OHIO.
E. A. SCHULTZ,
Director of Public Service.

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Bids: Aug. 28.

### Sewer, Manholes, etc.

Portsmouth, Va.

Sealed proposals will be received at the office of the City Manager, Municipal Building, this City, until 3 p.m. August 28th, 1922, for the construction of approximately 10,218 lineal feet of 8 inch T.C. sewer, 1,228 lineal feet of 102 inch T.C. sewer, 447 lineal feet of 10 inch "Class B" Cast Iron Pipe (American Water Works Std.), manholes 34, drop manholes 5, flush boxes 15, 12,150 lineal feet of 4 inch T.C. (house connections), 3,000 feet B.M. Creosoted short leaf Y.P. lumber, together with appurtenant structures, in streets and alleys of West Park View and Park View.

Certified check for $2,500.00. Bond 33⅓%.

Plans, profiles, specifications, etc., at the City Engineer's Office.

The right is reserved to reject any or all bids.

JOS. F. WEAVER JR.
City Engineer.

DITCHING CONTRACT WANTED
Anyone having work to sublet, suitable for a 30-ft. span Bay City Dryland Dredge.
Write to
N. B. MILLER, Milan, Tenn.

## OFFICIAL PROPOSALS

Bids: Aug. 31.

### Main Sanitary Sewer
### Contract B

Marion, Ohio

Sealed proposals will be received at the office of the Director of Public Service in the City Hall, Marion, Ohio, until 12 o'clock noon (Official Marion Time), August 31, 1922, and then publicly opened and read, for the construction of Main Sanitary Sewer—Contract B.

The following quantities give a general idea of the amount and character of the work to be done:

8,400 lin.ft. of 42 in. circular sewer.
1,060 lin.ft. of 39 in. circular sewer.
20 manholes.
2 special concrete structures.

Copies of plans and specifications and blank proposals may be obtained at the office of the Director of Public Service, City Hall, Marion, Ohio, or at the office of George B. Gascoigne, 648 Leader-News Building, Cleveland, Ohio, after August 16, 1922. A deposit of Ten Dollars ($10.00) will be required for each set of plans and specifications taken from the above offices. If a bid is submitted this deposit will be refunded upon the return of said plans and specifications in good condition. Similar deposits will be required for additional sets of plans and specifications taken from the above offices, there being no refund for their return. All checks for said plans and specifications shall be made payable to the City of Marion.

The proposal shall contain the full name and address of the party or parties making the same and all persons interested therein, and shall be accompanied by a proposal bond signed by a surety company authorized to do business in the State of Ohio or by a certified check on a solvent bank located in Marion for Five Thousand Dollars ($5000.00) made payable to the City of Marion, as surety that if the bid be accepted a contract will be entered into and the performance of it properly secured.

No proposal will be entertained unless made on the blanks furnished by the Director of Public Service and delivered at the office of the Director of Public Service in the City Hall, Marion, Ohio, previous to 12 o'clock noon (Official Marion Time) on the day specified.

The City, through its Director of Public Service, reserves the right to reject any or all bids, to waive any informalities in the bids received, and to accept any bid which is deemed most favorable to the City of Marion, Ohio.

THE CITY OF MARION, OHIO.
E. A. SCHULTZ,
Director of Public Service.

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Bids: Sept. 5.

### Bridges and Culverts

Augusta, Ga.

SEALED PROPOSALS will be received by the Streets and Drains Committee of the City Council of Augusta until 12 o'clock (noon) Tuesday, September 5, 1922, and at that time publicly opened in the Mayor's office, for constructing the following bridges or culverts:

Greene Street bridge, over the Third Level of the Canal, near the Margaret Wright Hospital. Clear span 20 feet; length, 100 feet or more.

Jackson (8th) Street bridge, over the Third Level of the Canal. Clear span 20 feet; length approximately 60 feet.

Plans and specifications can be obtained from the undersigned after August 20th, upon depositing $10.00 as a guarantee of the safe return of plans and specifications.

All bids must be accompanied by a check of 5% of the amount named in bid.

Address all bids to J. W. Westmoreland, Clerk of Council.

The City reserves the right to reject any and all bids.

W. H. WISE,
City Engineer and Commissioner of Public Works.

Say this Over and Over Again to Yourself
*Swart Service Really Serves*
HARMON V. SWART
*Contract Bonds*
*Compensation Insurance*
92 William St., New York

## OFFICIAL PROPOSALS

Bids: Aug. 30.

### State Highway Construction

Raleigh, N. C.

Sealed bids for the construction of the following projects will be received by the North Carolina State Highway Commission at Raleigh, N. C., until 10 a.m., on the 30th day of August, 1922, when they will be opened and read:

Hard surface (Concrete or Asphaltic Paving projects), including grading, reinforced concrete or cast iron pipe, structures, etc.

| Project No. | County | Length (Miles) |
|---|---|---|
| 184 | Pitt ..................... | 7.14 |
| 328 | Columbus | 7.03 |
| 412 | Durham | 8.80 |
| 460 | Orange | 9.87 |
| 528 | Davidson | 10.24 |
| 589 | Rockingham | 9.81 |
| 590 | Rockingham | 2.10 |
| 608 | Anson | 7.88 |
| 615 | Cabarrus | 3.88 |
| 658 | Mecklenburg | 9.55 |
| 761 | Surry | 2.22 |
| 765 | Surry | 3.40 |
| 785 | Wilkes | 2.52 |
| 821 | Cleveland | 1.58 |
| 822 | Cleveland | 10.47 |
| 901A | Buncombe | 7.57 |
| 876 | Rutherford | 4.83 |

Topsoil, Sand Clay, or Gravel projects, including grading, drainage pipe, structures, etc.

| | | |
|---|---|---|
| 106 | Bertie | 7.12 |
| 157A | Martin | 12.41 |
| 157B | Martin | 12.36 |
| 712 | Ashe | 11.06 |
| 784 | Wilkes | 4.97 |
| 847 | McDowell | 3.84 |
| 882 | Rutherford | 15.80 |

MACADAM PROJECTS

Penetration or waterbound Macadam Projects, including drainage pipe, structures, etc.

| | | |
|---|---|---|
| 380 | Pender | 8.98 |

BRIDGE PROJECTS

| | | |
|---|---|---|
| 317 | Brunswick | 1-140 ft. steel through span. |
| 589 | Rockingham | 15-40 ft. spans and 1-150 ft. arch. |
| 673 | Davidson | 5-150 ft. R.C. Arch Spans. |
| 848 | McDowell | 4-45 ft. R.C. Deck Girders. |
| 858 | Mitchell | 1-125 ft. R.C. Arch and 2-45 ft. Deck Girders. |

Specifications, proposal forms, etc., may be obtained from the State Highway Commission at Raleigh, N. C.

Plans may be seen in the Raleigh office, or in the offices of the District Engineer.

Bridge plans may be obtained from the State Highway Commission at Raleigh, N. C., upon Payment of Five ($5.00) dollars per set.

The right is reserved to reject any or all bids.

By order of the North Carolina State Highway Commission.

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Bids: Aug. 28.

### Concrete Road Construction

Freehold, N. J.

Notice is hereby given that sealed bids will be received by the Mayor and Council of the Borough of Freehold, N. J., for the reconstruction of Throckmorton Street and opened and read in public in the Municipal Building on Monday, August 28th, 1922, at eleven a.m. day light saving time.

The work consists of approximately 3,000 cu.yd. of excavation; 10,000 sq.yd. of reinforced concrete and 4,000 lin.ft. of concrete curb.

Drawings and specifications for the proposed work, prepared by Chas. A. Niles, Borough Engineer, are on file at the office of said Engineer at the Municipal Building, Freehold, N. J., and plans and proposal forms may be obtained upon the deposit of $5.00, which amount will be refunded upon return of the plans before the time specified for opening the bids.

All bids must be submitted on the forms furnished by the Borough, enclosed in a sealed envelope, bearing the name and address of the bidder, the name of the proposed work, and addressed to the Mayor and Council of the Borough of Freehold. All bids must be accompanied by a certified check for a sum not less than 10% of the amount bid and a surety company certificate stating that said surety company will provide the bidder with the required bond.

The Borough Council reserves the right to reject any or all bids if deemed to the best interests of the Borough to do so.

H. M. BURKE,
Borough Clerk.

## OFFICIAL PROPOSALS

Bids: Sept. 6.

### State Highway Work

Freehold, N. J.

Notice is hereby given that sealed bids will be received by the County of Monmouth for the following:

Construction of State Highway Route No. 4, Section No. 5A, Maple Avenue, Red Bank, estimated amount of sheet asphalt surface on a portland cement concrete foundation is 27,307 square yards.

Work is to be performed under County Reimbursement Act, Chapter 183, laws of 1918, and amended by Chapter 317, laws of 1920.

Bids will be received at the Court House at Freehold, N. J., on Wednesday, September 6th, 1922, at 11:00 M. Daylight Saving Time.

Drawings, specifications and form of contract and bond for the proposed work are on file in the office of George K. Allen, Jr., County Engineer, at Red Bank, N. J., and in the office of the State Highway Department, Trenton, New Jersey, and may be inspected by prospective bidders. Plans will be furnished on deposit of ten dollars ($10.00) upon application to George K. Allen, Jr., County Engineer. Bids must be made on the standard proposal forms in the manner designated therein and as required by the specifications, enclosed in sealed envelopes, addressed to the Board Chosen Freeholders of the County of Monmouth and bearing the name and address of the bidder and the name and section of the route on the outside. Bid must be accompanied by a certified check drawn to the order of C. Asa Francis, County Treasurer, for not less than ten per cent (10 per cent) of amount of the bid, provided that said certified check shall not be less than $500.00 nor more than $20,000.00, and be delivered at the above place on or before the hour named. Copies of the standard proposal form will be furnished on application to George K. Allen, County Engineer.

Each bidder must accompany his bid with a certificate from a surety company duly authorized to do business in this State, stating that such surety company will provide said bidder with a bond in such sum as is required in and in accordance with the provisions of said specifications, conditioned for the faithful performance of the provisions of the contract and specifications. Each bidder must also accompany his bid with a statement of equipment properly filled out.

By order of a resolution of the Board of Chosen Freeholders of the County of Monmouth passed at a meeting held on Wednesday, May 24th, 1922.

WILLIAM A. STEVENS.
Clerk.

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Bids: Aug. 28.

### Sewer

Portsmouth, Va.

Sealed proposals will be received at the office of City Manager Municipal Building, this city, until 3 p.m. August 28th, 1922, for the construction of approximately 771 linear feet of 12 inch T.C. sewer, 365 linear feet of 15 inch T.C. sewer, 290 linear feet of 18 inch T.C. sewer, 240 linear feet of 21 inch T.C. sewer, 170 linear feet of 24 inch T.C. sewer, 260 linear feet of 27 inch T.C. sewer, 809 linear feet of 36 inch sewer, 1,065 linear feet of 42 inch sewer, 555 linear feet of 48 inch sewer, manholes 13, inlet catch basins 11, inlet boxes 15, together with all appurtenant structures, in West High St. et. al.

Plans, profiles, specifications, etc., at the office of City Engineer.

The right is reserved to reject any or all bids.

Certified check $2,500. Bond 33⅓%.

JOS. E. WEAVER JR.,
City Engineer.

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Bids: Aug. 30.

### Artesian Well Connections, Pumping Plant and Electric Equipment

Madison, N. J.

For estate of H. McK. Twombly near Madison, N. J., specification and plans may be seen at office of the Engineers on and after Monday August 21st.

Bids will be received by the Engineers up to 12 noon Wednesday, August 30th, 1922.

TRIBUS AND MASSA,
Consulting Engineers,
15 Park Row, New York.

## OFFICIAL PROPOSALS

Bids: Aug. 22.

### Boardwalk Construction

Long Branch, N. J.

Public notice is hereby given that sealed proposals are invited and will be received by the Board of Commissioners of the City of Long Branch, New Jersey, for the renewal and widening of about forty-three hundred (4300) lineal feet of boardwalk extending from a point near Morris Avenue northwardly to Sea View Avenue.

Said bids will be opened and read at a regular meeting of the Board of Commissioners held at City Hall on Tuesday evening, August 22, 1922, at 8 o'clock p.m. (daylight saving time) or as soon thereafter as the matter can be presented.

Drawings and specifications for the proposed work prepared by J. W. Seaman, City Engineer, have been filed in the office of the City Clerk and at the office of the Engineer, at 192 Broadway, Long Branch, New Jersey, and may be procured by prospective bidders upon a deposit of Ten Dollars ($10.00) which will be refunded upon the return of the plans and specifications at or before the time the bids are received.

Bids must be made on the standard proposal forms in the manner prescribed therein and required by the specifications and must be enclosed in sealed envelopes bearing the name and address of the bidder and marked, "Bids for re-building boardwalk," addressed to Frank C. Quinn, City Clerk, and must be accompanied by a certified check for not less than ten per cent (10%) of the amount bid upon proposed work as stated in the proposal, drawn to the order of Frank L. Howland, City Treasurer, or cash in equal amount and to be delivered at the place and at the hour above named.

Dated, Long Branch, N. J., August 10, 1922.

FRANK C. QUINN,
City Clerk.

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Bids: Aug. 28.

### Water Mains, Hydrants, Etc.

Sibley, Ill.

The Village of Sibley, Ill. has voted a bond issue for the construction of nine blocks of water mains and the necessary hydrants, etc., to complete the job, also for a new storage battery and switchboard for their electric plant. Bids will be received on the above Monday Evening, August 28th. Further particulars may be secured from S. M. Waldon, Village Treasurer, Sibley, Ill.

## U. S. GOVERNMENT

U. S. ENGINEER OFFICE, 616 Army Building, New York City.—SEALED PROPOSALS will be received here until 11 a.m., Eastern Standard Time, August 19, 1922, and then opened, for dredging in Passaic River, N. J. Further information on application.

U. S. ENGINEER OFFICE, BUFFALO, N. Y.—SEALED PROPOSALS will be received here until 11 a.m. (Eastern standard time) Aug. 25, 1922, and then opened, for constructing Office-Storehouse Building and six Operating Houses at Black Rock Lock and Storehouse at Ferry Street Bridge, Buffalo, N. Y. Further information on application.

UNITED STATES ENGINEER OFFICE, NORFOLK, VA.—Sealed proposals will be received here until 12 m., August 23, 1922, and then opened, for dredging on the 40-foot channel, Norfolk Harbor, Va. Further information on application.

SEALED PROPOSALS for constructing a concrete road at Picatinny Arsenal, Dover, N. J., will be received and publicly opened at 11 a.m. daylight saving time, Sept. 1, 1922 at Constructing Quartermaster's Office, Room 510, 39 Whitehall St., N. Y. C., N. Y. Information at above address.

U. S. ENGINEER OFFICE, Mobile, Ala.—Sealed proposals will be received here until 11 o'clock a.m., September 5, 1922, and then opened, for dredge pontoons and discharge pipe for the U. S. 20-inch hydraulic pipe-line dredge Wahalak. Further information on application.

UNITED STATES ENGINEER OFFICE, Norfolk, Va.—Sealed proposals will be received here until 12 m., September 14, 1922, and then opened, for dredging in Pagan River, Va. Further information on application.

## U. S. GOVERNMENT

PROPOSALS FOR SPURDIKE CONSTRUCTION.—U. S. Engineer Office, 329 Customhouse, New Orleans, La.—Sealed proposals will be received here until 9:00 a.m., Sept. 5, 1922, and then opened, for construction of spurdikes at Southwest Pass, Mississippi River. Further information on application.

PROPOSALS FOR SPURDIKE CONSTRUCTION.—U. S. Engineer Office, 329 Customhouse, New Orleans, La.—Sealed proposals will be received here until 9:00 a.m., Sept. 5, 1922, and then opened, for construction of spurdikes at Head of Passes, Mississippi River. Further information on application.

PROPOSALS FOR BULKHEAD CONSTRUCTION.—U. S. Engineer Office, 329 Customhouse, New Orleans, La.—Sealed proposals will be received here until 9:00 a.m., Sept. 5, 1922, and then opened, for bulkhead construction at Southwest Pass, Mississippi River. Further information on application.

PROPOSALS FOR STONE.—U. S. Engineer Office, 329 Customhouse, New Orleans, La.—Sealed proposals will be received here until 9:00 a.m., Sept. 7, 1922, and then opened, for furnishing and delivering stone for Southwest Pass, Head of Passes, and South Pass, Mississippi River. Further information on application.

PROPOSALS FOR STEEL OIL BARGES.—U. S. Engineer Office, 329 Customhouse, New Orleans, La.—Sealed proposals will be received here until 8:00 a.m., Sept. 5, 1922, and then opened, for construction and delivery of two 4,000-barrel steel oil barges in the Mississippi River, at New Orleans, La. Further information on application.

PROPOSALS FOR SAND AND GRAVEL—U. S. Engineer Office, 329 Customhouse, New Orleans, La., Sealed proposals will be received here until 9:00 A.M., Sept. 1, 1922, and then opened, for furnishing sand and gravel for Southwest Pass, Mississippi River. Further information on application.

U. S. ENGINEER OFFICE, Providence, R. I. Sealed proposals will be received here until 11 o'clock A.M., Eastern Standard Time, Aug. 28, 1922, and then opened for dredging in Bridgeport Harbor, Conn. Further information on application.

U. S. ENGINEER OFFICE, 815 Witherspoon Bldg., Philadelphia, Pa. Bids are wanted until September 6, 1922, for dredging in Delaware River on Bellevue, Cherry Island and Liston ranges. Further information on application.

U. S. ENGINEER OFFICE, Providence, R. I. Sealed proposals will be received here until 11 o'clock A.M., Eastern Standard Time, August 31, 1922, and then opened, for dredging in Pawtucket (Seekonk) River, R. I. Further information on application.

U. S. ENGINEER OFFICE, BALTIMORE, MD., Sealed proposals will be received here until 1 p.m., daylight saving time, August 21, 1922, and then opened for dredging in Baltimore Harbor and Channels, Md. Further information on application.

U. S. ENGINEER OFFICE, Room 710, Army Building, 39 Whitehall Street, New York, N. Y.—Sealed proposals for dredging in Hudson River, N. Y., will be received here until 12 M., September 5, 1922, (daylight saving time) and then opened. Further information on application.

PROPOSALS AND BIDS on the construction of two stables, brick 61 feet by 112 feet each at Plattsburg Barracks, N. Y. will be received at the office of the Construction Quartermaster at said barracks up to 10:00 a.m. standard time, August 30, 1922, at which time the said bid will be opened. Plans and specifications for said project are on exhibition at the office of the Quartermaster, Plattsburg Barracks, N. Y. and at the office of the Quartermaster General, Washington, D. C. Copies of said plans and specifications will be supplied upon request accompanied by a deposit of twenty-five dollars. Said deposit will be refunded on the return of plans and specifications in good order. Joseph H. Dent, Captain Quartermaster Corps Constructing.